

WHAT IS IT?

Healthcare careers focus on the health and well-being of patients, and advancing the cause of medicine. Work is performed generally in hospitals or clinics, but can also be found in offices, nursing facilities, and increasingly, people's homes. Technology has been transforming healthcare in recent years, allowing patients to receive better care and live longer, more productive lives.

LEADS TO THESE JOBS:

- Certified Nursing Assistant
- Dieticion
- · Health Information Technician
- · Home Health Aide
- · Medical Billing Coder
- Pharmacy Technician
- Physician
- · Registered Nurse
- · Therapist

Physicians, nurses, and therapists work directly with patients to diagnose, treat, and comfort their patients. Researchers, biomedical engineers, and technicians work in the laboratory developing new cures for disease. You might also work as a medical assistant or health information specialist that keeps history of medical records for insurance or future use.

IS THIS FOR ME?

- · Like to help people
- Patient
- · Work well under stress
- Empathetic
- Flexible
- Interested in the human body
- Enjoy math and science



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HEARTLAND **REGIONAL MEDICAL** CENTER

Marion, IL www.heartlandregional. com



IN-DEMAND **OCCUPATIONS IN ILLINOIS**

Education Level	Career Path	Median Salary	Job Growth Over Next 10 Years	Openings Projected Over Next 10 Years	Training Time Needed
	Emergency Medical Technician	\$31,623	10%	9,160	Postsecondary Vocational Award
High	Home Health Aide	\$23,280	25%	59,010	Short-term On-the- job Training
School	Nursing Assistant	\$26,521	5%	73,410	Postsecondary Vocational Award
	Pharmacy Technician	\$31,301	5%	16,030	Moderate-term On- the-job Training
Associate's Degree	Dental Hygienist	\$73,531	9%	5,830	Associate's Degree
Bachelor's Degree	Registered Nurse	\$70,189	15%	86,920	Bachelor's Degree
Master s Degree	Physical Therapist	\$89,574	19%	7,400	Master's Degree

Source - Illinois Department of Employment Security, 2017



HEALTH SCIENCES AND TECHNOLOGY ENDORSEMENT

By pursuing coursework related to Health Science careers in high school, you have the opportunity to receive a **Health Sciences and Technology Endorsement** with your diploma upon high school graduation.

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Back to Explore Careers and Clusters

CLUSTER



Health Science

○ Favorite



Type a career

Overview

There are many challenging educational and training opportunities within the high-skilled world of Health Science. Learners need a solid background in math, science, communications, and technical skills. Education and training can be obtained in high schools, technical colleges/institutes and universities. Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare learners for professional and technical careers. This Health Science Career Cluster orients students to careers that promote health, wellness, and diagnosis as well as treat injuries and diseases. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices or laboratories, cruise ships, medivac units, sports arenas, space centers, or within the community.

This Cluster Contains the Following Pathways

Therapeutic Services

Diagnostic Services

Health Informatics

Support Services

Biotechnology Research and Development

Employment Outlook

Employment of healthcare occupations is projected to grow 19 percent through 2024, much faster than the average for all occupations. This growth is expected due to an aging population and because federal health insurance reform should increase the number of individuals who have access to health insurance.
 The median annual wage for healthcare practitioners and technical occupations (such as registered nurses, physicians and surgeons, and dental hygienists) is \$61,710, which is higher than the median annual wage for all occupations in the economy of \$35,540. However, healthcare support occupations (such as home health aides, occupational therapy assistants, and medical transcriptionists) has a median annual wage of \$26,440, lower than the median annual wage for all occupations in the economy.
 Home health aides are predicted to grow by 38 percent, medical assistants will grow by 23 percent, and physician assistants will grow by 30 percent. The continued growth in both the aging and general population, as well as an increase in several chronic diseases, such as diabetes, will drive the need for more healthcare jobs.

Plan of study

LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Health Science
	Intere	st Inventory Administer	red and Plan of Stud	ly initiated for all Learn	er:		
_	9	English/ Language Arts I	Algebra I	Dependent on chosen pathway	State History Chrics	All plans of study should meet local and state high school graduation requirements and	"Health Science I: Introduction to Health Science "Information Technology Applications
ARY	10	English/ Language Arts II	Dependent on chosen pathway	Dependent on chosen pethwey	U.S. History	college entrance requirements. Certain local student crganization activities are also important including public speaking, record keeping and work-based experiences. A foreign language is	"Health Science It: Health, Safety and Ethics i the Health Environment
SECONDARY	11	English/ Language Arts III	Dependent on chosen pathway	Dependent on chosen pathway	World History Sociology		"Health Science III: Employment in Health Occupations
	Colleg	e Placement Assessm	nents-Academic/Can	eer Advisement Provid	ed	recommended.	
	12	English/ Language Arts IV	Dependent on chosen pathway	Dependent on chosen pethwey	Psychology Economics		Continue courses perfinent to the pethway selected.
	Articul	lation/Dual Credit Tran	sofoled-Postsecond	lary courses may be to	itenimoved to the seco	ndary level for articulation/dual of	predit purposes.
	Year 13	English Composition	Dependent on chosen pathway	Dependent on chosen pathway	American Govt. Psychology	All plans of study need to mee learners' career goals with regard to required degrees, floenses, certifications or journey worker status. Certain local student organization	Continue courses pertinent to the pethway selected.
POSTSECONDARY	Year1	Speech/ Oral Communication Technical Writing	Dependers on chosen pathwey	Dependent on chosen pethway	American History Sociology		
POSTSE	Year 15		Continue courses in	the area of specializat	ion.	activities may also be important to include. Work- based learning is an integral part of this Carser Cluster.	
	Year 16					part of this Caroot Cluster.	

Zoom

Related Occupations

Administrative Services Managers

Art, Drama, and Music Teachers, Postsecondary

Athletic Trainers

Audiologists

Biological Scientists, All Other

Cardiovascular Technologists and Technicians

Chiropractors

Claims Adjusters, Examiners, and Investigators

Claims Examiners, Property and Casualty Insurance

Clinical Psychologists

Clinical, Counseling, and School Psychologists

Communications Teachers, Postsecondary

Computer and Information Research Scientists

Computer Programmers

Computer User Support Specialists

Cooks, Institution and Cafeteria

Counseling Psychologists

Dental Assistants

Dental Hygienists

Dental Laboratory Technicians

Dentists, General

Diagnostic Medical Sonographers

Dietetic Technicians

Dietitians and Nutritionists

Editors

Emergency Medical Technicians and Paramedics

Engineers, All Other

Executive Secretaries and Executive Administrative Assistants

Family and General Practitioners

Farm and Home Management Advisors

Fine Artists, Including Painters, Sculptors, and Illustrators

First-Line Supervisors of Food Preparation and Serving Workers

First-Line Supervisors of Office and Administrative Support Workers

Food Batchmakers

Health Diagnosing and Treating Practitioners, All Other

Health Educators

Health Specialties Teachers, Postsecondary

Health Technologists and Technicians, All Other

Healthcare Practitioners and Technical Workers, All Other

Healthcare Support Workers, All Other

Home Economics Teachers, Postsecondary

Home Health Aides

Industrial-Organizational Psychologists

Internists, General

Life, Physical, and Social Science Technicians, All Other

Massage Therapists

Medical and Clinical Laboratory Technicians

Modical and Clinical Laboratory Tochnologists

Medical and cultical rapolatory recimologists

Medical and Health Services Managers

Medical Appliance Technicians

Medical Assistants

Medical Equipment Preparers

Medical Records and Health Information Technicians

Medical Scientists, Except Epidemiologists

Medical Secretaries

Medical Transcriptionists

Mental Health Counselors

Musicians, Instrumental

Natural Sciences Managers

Nuclear Equipment Operation Technicians

Nuclear Medicine Technologists

Nuclear Monitoring Technicians

Nuclear Technicians

Nursing Assistants

Nursing Instructors and Teachers, Postsecondary

Occupational Health and Safety Specialists

Occupational Health and Safety Technicians

Occupational Therapists

Occupational Therapy Aides

Occupational Therapy Assistants

Ophthalmic Laboratory Technicians

Opticians, Dispensing

Optometrists

Oral and Maxillofacial Surgeons

Orderlies

Orthodontists

Orthotists and Prosthetists

Pharmacists

Pharmacy Aides

Pharmacy Technicians

Physical Scientists, All Other

Physical Therapist Aides

Physical Therapist Assistants

Physicians and Surgeons, All Other

Physical Therapists

Physician Assistants

Physicists

Podiatrists

Prosthodontists

Psychiatric Aides

Psychiatric Technicians

Psychiatrists

Psychologists, All Other

Public Relations Specialists

Radiation Therapists

Radiologic Technicians

Radiologic Technologists

Receptionists and Information Clerks

Recreational Therapists

Rehabilitation Counselors

Respiratory Therapists

Respiratory Therapy Technicians

School Psychologists

Singers

Software Developers, Applications

Speech-Language Pathologists

Substance Abuse and Behavioral Disorder Counselors

Surgeons

Surgical Technologists

Therapists, All Other

Veterinarians

Veterinary Assistants and Laboratory Animal Caretakers

Veterinary Technologists and Technicians

Related Majors

Acupuncture

Advanced General Dentistry (Cert, MS, PhD)

Advanced/Graduate Dentistry and Oral Sciences, Other

Aerospace Medicine - (Residency Program)

Allied Health and Medical Assisting Services, Other

Allied Health Diagnostic, Intervention, & Treatment Professions, Other

Alternative & Complementary Medicine & Medical Systems, Other

Anesthesiologist Assistant

Aromatherapy

Art Therapy/Therapist

Asian Bodywork Therapy

Assistive/Augmentative Technology & Rehabiliation Engineering

Athletic Training/Trainer

Audiology/Audiologist & Speech-Language Pathology/Pathologist

Audiology/Audiologist and Hearing Sciences

Ayurvedic Medicine/Ayurveda

Biology Technician/Biotechnology Laboratory Technician

Biotechnology

Blood Bank Technology Specialist

Cardiopulmonary Technology/Technologist

Cardiovascular Technology/Technologist

Chiropractic (DC)

Chiropractic Assistant/Technician

Clinical and Industrial Drug Development (MS, PhD)

Clinical Laboratory Science/Medical Technology/Technologist

Clinical Nutrition/Nutritionist

Clinical, Hospital, & Managed Care Pharmacy (MS, PhD)

Clinical/Medical Laboratory Assistant

Clinical/Medical Laboratory Science & Allied Professions, Other

Clinical/Medical Laboratory Technician

Clinical/Medical Social Work

Communication Disorders Sciences and Services, Other

Communication Disorders, General

Community Health and Preventive Medicine

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Comparative & Laboratory Animal Medicine (Cert, MS, PhD)
Cytogenetics/Genetics/Clinical Genetics Technology/Technologist
Cytotechnology/Cytotechnologist
                                       Dance Therapy/Therapist
Dental Assisting/Assistant
                               Dental Clinical Sciences, General (MS, PhD)
Dental Hygiene/Hygienist
                               Dental Laboratory Technology/Technician
Dental Materials (MS, PhD)
Dental Public Health & Education (Cert, MS/MPH, PhD/DPH)
Dental Public Health Specialty - (Residency Program)
Dental Public Health Specialty - (Residency Program)
Dental Residency Program, Other
                                      Dental Services and Allied Professions, Other
Dentistry (DDS, DMD)
Diagnostic Medical Sonography/Sonographer & Ultrasound Technician
Dietetic Technician (DTR)
                              Dietetics and Clinical Nutrition Services, Other
                            Dietitian Assistant
Dietetics/Dietitian (RD)
Direct Entry Midwifery (LM, CPM)
                                      Electrocardiograph Technology/Technician
Electroneurodiagnostic/Electroencephalographic Technology/Technologist
Emergency Care Attendant (EMT Ambulance)
Emergency Medical Technology/Technician (EMT Paramedic)
Endodontics Speciality - (Residency Program)
Endodontics/Endodontology (Cert, MS, PhD)
Energy and Biologically Based Therapies, Other
                                                   Environmental Health
Foods, Nutrition, and Related Services, Other
Foods, Nutrition, and Wellness Studies, General
Foodservice Systems Administration/Management
                                                      Gene/Genetic Therapy
Genetic Counseling/Counselor
                                   Health Aide
Health Aides/Attendants/Orderlies, Other
Health and Medical Administrative Services, Other
                                                      Health Communication
Health Information/Medical Records Administration/Administrator
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Health Professions and Related Clinical Sciences, Other

Health Services Administration

Health Unit Coordinator/Ward Clerk

Health Unit Manager/Ward Supervisor

Health/Health Care Administration/Management

Health/Medical Claims Examiner

Health/Medical Physics

Hematology Technology/Technician

Herbalism/Herbalist

Histologic Technician

Histologic Technology/Histotechnologist

Home Health Aide/Home Attendant

Homeopathic Medicine/Homeopathy

Hospital & Health Care Facilities Administration/Management

Human Nutrition

Hypnotherapy/Hypnotherapist

Industrial & Physical Pharmacy & Cosmetic Sciences (MS, PhD)

International Public Health/International Health

Kinesiotherapy/Kinesiotherapist

Laboratory Animal Medicine - (Residency Program)

Large Animal/Food Animal & Equine Surgery & Medicine (Cert, MS, PhD)

Massage Therapy/Therapeutic Massage

Maternal and Child Health

Medical Administrative/Executive Assistant & Medical Secretary

Medical Illustration and Informatics, Other

Medical Illustration/Medical Illustrator

Medical Informatics

Medical Insurance Coding Specialist/Coder

Medical Insurance Specialist/Medical Biller

Medical Office Assistant/Specialist

Medical Office Computer Specialist/Assistant

Medical Office Management/Administration

Medical Radiologic Technology/Science - Radiation Therapist

Medical Reception/Receptionist

Medical Staff Services Technology/Technician

Medical Transcription/Transcriptionist

Medical/Clinical Assistant

Medical/Health Management & Clinical Assistant/Specialist

Medication Aide

Medicinal and Pharmaceutical Chemistry (MS, PhD)

Medicine (MD)

Movement Therapy and Movement Education

Music Therapy/Therapist

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Natural Products Chemistry & Pharmacognosy (MS, PhD)
Naturopathic Medicine/Naturopathy (ND)
Nuclear Medical Technology/Technologist
Occupational Health and Industrial Hygiene
                                                Occupational Therapist Assistant
Occupational Therapy/Therapist
Ophthalmic & Optometric Support Services & Allied Professions, Other
Ophthalmic Laboratory Technology/Technician
Opthalmic Technician/Technologist
                                        Opticianry/Ophthalmic Dispensing Optician
Optomeric Technician/Assistant
                                     Optometry (OD)
Oral Biology and Oral Pathology (MS, PhD)
Oral Pathology Specialty - (Residency Program)
Oral/Maxillofacial Surgery (Cert, MS, PhD)
Orthodontics Specialty - (Residency Program)
Orthodontics/Orthodontology (Cert, MS, PhD)
                                                  Orthoptics/Orthoptist
Orthotist/Prosthetist
                           Osteopathic Medicine/Osteopathy (DO)
Pathology/Pathologist Assistant
                                     Pediatric Dentistry/Pedodontics (Cert, MS, PhD)
Pedodontics Specialty - (Residency Program)
                                                 Perfusion Technology/Perfusionist
Periodontics Specialty - (Residency Program)
Periodontics/Periodontology (Cert, MS, PhD)
Pharmaceutics and Drug Design (MS, PhD)
Pharmacoeconomics/Pharmaceutical Economics (MS, PhD)
Pharmacy (PharmD [USA] PharmD, BS/BPharm [Canada])
Pharmacy Administration & Pharmacy Policy & Regulatory Affairs (MS, PhD)
Pharmacy Technician/Assistant
Pharmacy, Pharmaceutical Sciences, and Administration, Other
Phlebotomy/Phlebotomist
                                Physical Therapist Assistant
Physical Therapy/Therapist
                                Physician Assistant
Podiatric Medicine/Podiatry (DPM)
                                       Polarity Therapy
Prosthodontics Specialty - (Residency Program)
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Health Science | Naviance Student Prosthodontics/Prosthodontology (Cert, MS, PhD) Psychiatric/Mental Health Services Technician Psychology, General Psychology, Other Public Health Education and Promotion Public Health, General (MPH, DPH) Radiation Protection/Health Physics Technician Radiologic Technology/Science - Radiographer Rehabilitation and Therapeutic Professions, Other Reiki Renal/Dialysis Technologist/Technician Respiratory Care Therapy/Therapist Respiratory Therapy Technician/Assistant Small/Companion Animal Surgery & Medicine (Cert, MS, PhD) Somatic Bodywork Somatic Bodywork & Related Therapeutic Services, Other Speech-Language Pathology/Pathologist Surgical Technology/Technologist Therapeutic Recreation/Recreational Therapy Theriogenology - (Residency Program) Traditional Chinese/Asian Medicine & Chinese Herbology Veterinary Anatomy (Cert, MS, PhD) Veterinary Biomedical & Clinical Sciences, Other (Cert, MS. PhD) Veterinary Dentistry - (Residency Program) Veterinary Dermatology - (Residency Program) Veterinary Emergency and Critical Care Medicine - (Residency Program) Veterinary Infectious Diseases (Cert, MS, PhD) Veterinary Internal Medicine - (Residency Program) Veterinary Medicine (DVM)

Veterinary Microbiology & Immunobiology (Cert, MS, PhD)

Veterinary Microbiology - (Residency Program)

Veterinary Nutrition - (Residency Program)

Veterinary Ophthalmology - (Residency Program)

Veterinary Pathology & Pathobiology (Cert, MS, PhD)

Veterinary Pathology - (Residency Program)

Veterinary Physiology (Cert, MS, PhD)

Veterinary Practice - (Residency Program)

Veterinary Preventive Medicine - (Residency Program)

Veterinary Preventive Medicine Epidemiology & Public Health (Cert, MS, PhD)

Veterinary Radiology - (Residency Program)

Veterinary Residency Programs, Other

Veterinary Sciences/Veterinary Clinical Sciences, General (Cert, MS, PhD)

Veterinary Surgery - (Residency Program)

Veterinary Toxicology & Pharmacology (Cert, MS, PhD)

Veterinary Toxicology - (Residency Program)

Veterinary/Animal Health Technology/Technician & Veterinary Assistant

Vocational Rehabilitation Counseling/Counselor

Yoga Teacher Training/Yoga Therapy

Zoological Medicine- (Residency Program

Source: States Career Clusters Initiative, 2017, www.careertech.org



West Aurora High School

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일 HEALTH SCIENCE CLUSTER

Biotechnology Research and Development

Favorite



Type a career

Overview

Careers in the Biotechnology Research and Development pathway involve bioscience research and development as it applies to human health. These scientists may study diseases to discover new treatments or invent medical devices used to directly assist patients or to improve the accuracy of diagnostic tests.

Credentials

Most entry-level careers in Biotechnology Research and Development require a master's degree. Few certifications or licensures are required for these careers at this time.

Employment Outlook

Biotechnology research plays a key role in scientific advancements that improve people?s quality of life. Skilled professionals will be needed to help develop new treatments for diseases, such as cancer and Alzheimer?s disease. In agriculture, biotechnology research will be used to create genetically engineered crops that provide greater yields and require less pesticide and fertilizer. Efforts to discover new and improved ways to clean and preserve the environment also will continue to add to job growth.

 dreer opportunities in this pathway are available in universities, research institutions, government agencies, specialty laboratory facilities and major health organizations.

Plan of study

LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree Major Courses for Biotechnology Research and Development Pathway
	Inten	est inventory Admin	istered and Plan of	Study initiated for all i	Learners		
10	9	English/ Language Arts I	Algebra 1	Biology	State History Civics	All plans of study should meet local and state high school	Health Science I: Introduction to Health Science Information Technology Applications
	10	English/ Language Arts II	Geometry	Chemistry	U.S. History	graduation require- ments and college en- trance requirements.	Health Science II: Health, Safety and Ethics in the Health Environment
ar consoni	11	English/ Language Arts III	Algebra II	Physics or other science course	World History Sociology	Certain local student organization activities are also important	Health Science III: Employment in Health Occupations
	Colle	ge Placement Asses	sments-Academic/	Career Advisement Pro	wided	including public speaking, record keep-	
-	12	English/ Language Arts IV	Trigonometry Calculus	Anatomy and Physiology Physics	Psychology Economics	ing and work-based experiences. A foreign language is recom- mended.	Health Science IV: Introduction to Biotechnology Research and Development
-	Artic	ulation/Dual Credit	Transcripted-Posts	econdary courses may	be taken/moved to	the secondary level for artic	ulation/dual credit purposes.
		English Composition	Algebra or Calculus	Anatomy and Physiology Microbiology or Molecular Biology	American Government Psychology	All plans of study need to meet learners' career goals with regard to required degrees, li-	Health Science V. Blotechnology Research and Development Preparation
i in contract	Year 14	Speech/ Oral Communication Technical Writing	Statistics	Cell Biology Biochemistry Organic Chemistry	American History Sociology		 Continue Courses in the Area of Specialization
rooms acreamy	Year 15	Franklinger and control in the page of any additional lane.		may also be important to include. Work-based learning is an integral part of this pathway.			
	Year 16					7	Complete Biotechnology Research and Development Major (4-Year Degree Program)

Zoom

Related Occupations

Biological Scientists, All Other

Health Specialties Teachers, Postsecondary

Natural Sciences Managers

Pharmacists

Related Majors

Biotechnology

Clinical and Industrial Drug Development (MS, PhD)

Industrial & Physical Pharmacy & Cosmetic Sciences (MS, PhD)

Medicinal and Pharmaceutical Chemistry (MS, PhD)

Natural Products Chemistry & Pharmacognosy (MS, PhD)

Pharmacoeconomics/Pharmaceutical Economics (MS, PhD)

Pharmacy, Pharmaceutical Sciences, and Administration, Other



English











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CAREER

Natural Sciences Managers

○ Favorite



Type a career

Overview

Knowledge and Skills

Tasks and Activities

Wages

Job Description

Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields.

Interests - Holland Interest Code ICR

Enterprising

Enterprising occupations frequently involve starting up and carrying out projects. These occupations can involve leading people and making many decisions. Sometimes they require risk taking and often deal with business.

Investigative

Investigative occupations frequently involve working with ideas, and require an extensive amount of thinking. These occupations can involve searching for facts and figuring out problems mentally.

Realistic

Realistic occupations frequently involve work activities that include practical, hands-on problems and solutions. They often deal with plants, animals, and real-world materials like wood, tools, and machinery. Many of the occupations require working outside, and do not involve a lot of paperwork or working closely with others.

Related Occupations

Architectural and Engineering Managers

Fraud Examiners, Investigators and Analysts

Logistics Engineers

Materials Scientists

Mining and Geological Engineers, Including Mining Safety Engineers

Petroleum Engineers

Risk Management Specialists

Supply Chain Managers

Transportation Managers

Related Majors

Accounting and Computer Science

Operations Research

Biotechnology

Logic

Biology/Biological Sciences, General

Biochemistry

Biophysics

Molecular Biology

Radiation Biology/Radiobiology

Botany/Plant Biology

Plant Pathology/Phytopathology

Plant Physiology

Botany/Plant Biology, Other

Cell/Cellular Biology and Histology

Anatomy

Cell/Cellular Biology and Anatomical Sciences, Other

Microbiology, General

Medical Microbiology and Bacteriology

Pathology/Experimental Pathology

Virology

Parasitology

Immunology

Zoology/Animal Biology

Entomology

Animal Physiology

Zoology/Animal Biology, Other

Animal Genetics

Plant Genetics

Toxicology

Biometry/Biometrics

Biostatistics

Ecology

Pharmacology

Marine Biology and Biological Oceanography

Evolutionary Biology

Ecology, Evolution, Systematics & Population Biology, Other

Biological and Biomedical Sciences, Other

Mathematics, General

Algebra and Number Theory

Analysis and Functional Analysis

Geometry/Geometric Analysis

Topology and Foundations

Applied Mathematics

Computational Mathematics

Applied Mathematics, Other

Statistics, General

Mathematics and Statistics, Other

Mathematics and Computer Science

Biopsychology

Gerontology

Natural Sciences

Nutrition Sciences

Astronomy

Astronomy

Astrophysics

Atmospheric Sciences and Meteorology, General Atmospheric Chemistry and Climatology Atmospheric Physics and Dynamics Meteorology Atmospheric Sciences and Meteorology, Other Chemistry, General Analytical Chemistry Inorganic Chemistry Organic Chemistry Physical and Theoretical Chemistry **Polymer Chemistry** Chemical Physics Chemistry, Other Geology/Earth Science, General Geophysics and Seismology Geochemistry Paleontology Hydrology and Water Resources Science Geochemistry and Petrology Oceanography, Chemical and Physical Geological and Earth Sciences/Geosciences, Other Physics, General Atomic/Molecular Physics **Elementary Particle Physics** Plasma and High-Temperature Physics Nuclear Physics Optics/Optical Sciences Solid State and Low-Temperature Physics Acoustics Theoretical and Mathematical Physics Physics, Other Physical Sciences, Other

Related Clusters and Pathways

Business Management and Administration

Business Information Management Operations Management

Lack Health Science Biotechnology Research and Development

Human Services Counseling and Mental Health Services

Science, Technology, Engineering and Mathematics Science and Mathematics

Source: O*Net and the Bureau of Labor Statistics, U.S. Department of Labor. O^*Net^m is a trademark of the U.S. Department of Labor, Employment and Training Administration.



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Health Science Lunch and Learn

March 25th In B140

dspitality & Tourism

during all lunch/SH periods (4-6)

Bring your lunch! Come and receive information from Career Cluster. professionals about careers relating to the Health Science

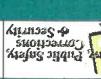
ecation &

4th, 5th & 6th. Interactive presentations will be held each lunch/study hall periods

AU Chiangement











Health Science Career Cluster

4 Year Plan

ENGLISH	MATH	SCIENCE	SOCIAL	CAREER & TECHNICAL or DEGREE
			STUDIES	MAJOR

GRADE 9

Freshman English Freshman Honors	Seq Alg 1 Algebra 1 Geometry	Biology Honors Biology	Health Occupations and Communications Health Science 1 Health Science 2 Heatlh Science 3 - Certified Nursing
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GRADE 10

Sophomore English Sophomore Honors AP Seminar	Seq Alg 2 Geometry Algebra 2	Chemistry Honors Chemistry	Health Occupations and Communications Health Science 1 Health Science 2 Heatlh Science 3 - Certified Nursing
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GRADE 11

Junior English AP Language American Studies	Geometry Algebra 2 PreCalc	AP Physics Physics Conceptual Physics Honors Chemistry	United States History	Health Occupations and Communications Health Science 1 Health Science 2 Heatlh Science 3 - Certified Nursing
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GRADE 12

Mass Communication Fundamentals of Speech Medical Literature and Research AP Seminar	Algebra 2 Advanced Algebra QLit / Prob PreCalc Calculus	DC Biology AP Chemistry AP Biology Anatomy & Physiology	Government and Economics	Health Occupations and Communications Health Science 1 Health Science 2 Heatlh Science 3 - Certified Nursing
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Other Courses to Consider

Med Terms and Ethics, Psychology, Sociology

Clubs / Activities HOSA, Skills USA, FCCLA