



# Health Science

## Potosi High School Career Cluster Program of Study

This Program of Study Template can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. **Ask your high school counselor to help you fill in the required courses you need to graduate.**

| Grade | English<br>8 semesters  | Math<br>6 semesters   | Science<br>6 semesters  | Social Studies<br>6 semesters   | Other Required Courses,<br>Recommended Electives  | Career & Technical Courses and/or<br>Degree Major Courses   | SAMPLE Occupations<br>Relating to this Pathway  |
|-------|---|---|---|---|---|---|---|
| 9     | Comm Arts I   | Pre- College<br>Algebra or high<br>school math class  | High School<br>Science Course                                   | High School SS<br>Course  | Health Classes<br>High school biological<br>science classes   | High School health classes<br>Check with high school counselor for<br>additional course offerings   | <b>Occupations Requiring<br/>Less than Baccalaureate<br/>Degree</b><br>► Dental<br>Assistant/Hygienist<br>► EMT/Paramedic<br>► Health Information<br>Coder<br>► Home Health Aide<br>► Lab Technician<br>► Phlebotomist<br>► Radiographer<br>► Registered Nurse<br><b>Occupations Requiring<br/>Baccalaureate Degree &amp;<br/>Beyond</b><br>► Athletic Trainer<br>► Biochemist<br>► Biostatistician<br>► Geneticist<br>► Industrial Hygienist<br>► Nutritionist<br>► Occupational Therapist<br>► Physician (MD/DO)<br>► Psychologist<br>► Radiologist<br>► Research Scientist<br>► Speech/Language<br>Pathologist<br>► Toxicologist<br>► Veterinarian<br>► Physical Therapist<br>► Nurse Practitioner |
| 10    | Comm Arts II  | Pre- College<br>Algebra or high<br>school math class  | High School<br>Science Course                                   | High School SS<br>Course  | Health Classes<br>High school biological<br>science classes   | High School health classes<br>Check with high school counselor for<br>additional course offerings   |   |
| 11    | Comm Arts II<br>high school English<br>elective<br><br>*College English<br>Comp I or Public<br>Speaking | Pre- College<br>Algebra or high<br>school math class<br><br>*College Algebra<br>*College Trig | High School<br>Science Course<br>*College General<br>Biology    | High School<br>History or<br>Government<br>Course<br><br>* College Am.<br>History I &<br>Am. History II<br>*American<br>Political systems | Health Classes<br>High school biological<br>sciences<br><br>*College Psychology<br>*College Sociology<br>*Med Term I & II<br>*Human Growth &<br>Development | Check with high school counselor for<br>additional course offerings<br><br>*Unitec Health Occupations Program<br>(CNA)<br><br>*College Med Term I & II<br>*Emergency Medical Responder<br>*College Human Growth & Dev *<br>*Human Anatomy & Physiology<br>*Calculus – Pre-med or masters degree<br>and above          |   |
| 12    | *College English<br>Comp II or Intro to Lit   | Pre- College<br>Algebra or high<br>school math class<br><br>*College Algebra<br>*College Trig | High School<br>Science Course<br>*College Intro to<br>Chemistry | High School<br>History or<br>Government<br>Course<br><br>* College Am.<br>History I &<br>Am. History II<br>*American<br>Political systems | Health Classes<br>High school biological<br>sciences<br><br>*College Psychology,<br>*Sociology<br>*Med Term I & II<br>*Human Growth &<br>Development        | Check with high school counselor for<br>additional course offerings<br><br>*Unitec Health Occupations Program<br>(CNA)<br><br>*College Med Term I & II<br>*Emergency Medical Responder<br>*College Human Growth & Dev<br>*Human Anatomy & Physiology<br>*Calculus – Pre-med – Pre-med and<br>masters degree and above |   |

\*Dual Credit courses can often be substituted for high school credit. Check with your Counselor.

\*Dual Enrollment courses can be taken on a MAC campus or online.

Assessments/Certifications: College Placement Assessments, Compass, ACT, SAT

Clubs/Extracurricular Activities: Ask your Counselor what is available at your school.

Work-Based Learning:  After School Employment  Internship/Mentorship  Job Shadowing  Service Learning

Certifications:  HeartSaver First Aid  HeartSaver CPR  Basic Life Support (BLS)

**Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.**

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|--|--|---|---|--|---|
| <b>Sample Career Specialties/Occupations</b> | Acupuncturist<br>Anesthesiologist/Assistant<br>Anesthesia Technologist/Technician<br>Art/Music/Dance Therapist(s)<br>Athletic Trainer<br>Audiologist<br>Certified Nursing Assistant<br>Chiropractor<br>Chiropractic Assistant<br>Dental Assistant/Hygienist<br>Dental Lab Technician<br>Dietitian/Nutritionist<br>Dosimetrist<br>EMT/Paramedic<br>Endodontist<br>Exercise Physiologist<br>Home Health Aide<br>Kinesiotherapist<br>Licensed Practical Nurse<br>Massage Therapist<br>Medical Assistant<br>Mental Health Counselor<br>Naturopathic Doctor<br>Nurse Anesthetist<br>Nurse Midwife<br>Nurse Practitioner<br>Occupational Therapist/Assistant<br>Oral Surgeon<br>Orientation/Mobility Specialist<br>Orthodontist<br>Orthoptist<br>Orthotist/Prosthetist/Technician<br>Pedorthist<br>Perfusionist<br>Pharmacist<br>Pharmacy Technician<br>Physical Therapist/Assistant<br>Physician (MD/DO)<br>Physician Assistant<br>Podiatrist<br>Psychologist<br>Psychiatrist<br>Radiation Therapist<br>Recreation Therapist<br>Registered Nurse<br>Rehabilitation Counselor<br>Respiratory Therapist<br>Speech-Language Therapist<br>Surgical Technician<br>Veterinarian<br>Veterinarian Assistant/Technician<br>Vision Rehabilitation Therapist<br>Wellness Coach | Audiologist<br>Blood Bank Technology Specialist<br>Cardiovascular Technologist<br>Clinical Lab Technician<br>Clinical Laboratory/Technologist<br>Computer Tomography (CT) Technologist<br>Cytogenetic Technologist<br>Cytotechnologist<br>Dentist<br>Diagnostic Medical Sonographer<br>Electrocardiographic (ECG) Technician<br>Electroneurodiagnostic Technologist<br>Electronic Diagnostic (EEG) Technologist<br>Exercise Physiologist<br>Geneticist<br>Geriatrician<br>Histotechnician<br>Histotechnologist<br>Magnetic Resonance Technologist<br>Mammographer<br>Medical Technologist/ Clinical Laboratory Scientist<br>Nuclear Medicine Technologist<br>Optician<br>Ophthalmologist<br>Ophthalmic Assistant/Technologist<br>Optometrist<br>Pathologist<br>Pathologists' Assistant<br>Phlebotomist<br>Polysomnographic Technologist<br>Positron Emission Tomography (PET) Technologist<br>Radiologic Technologist<br>Radiologist<br>Speech-Language Pathologist | Admitting Clerk<br>Applied Researcher<br>Compliance Technician<br>Clinical Account Manager<br>Clinical Account Technician<br>Clinical Data Specialist<br>Community Services Specialists<br>Data Quality Manager<br>Epidemiologist<br>Ethicist<br>Health Educator<br>Health Information Mgmt. Administrator<br>Health Information Mgmt. Technician<br>Healthcare Access Manager<br>Healthcare Administrator<br>Healthcare Finance Informatician<br>Information Privacy Officer<br>Managed Care Contract Analyst<br>Medical Coder<br>Medical Historian<br>Medical Illustrator<br>Medical Information Technologist<br>Medical Librarian<br>Medical Transcriptionist<br>Patient Account Manager<br>Patient Account Technician<br>Patient Advocate<br>Patient Information Coordinator<br>Project Manager<br>Public Health Educator<br>Quality Management Specialist<br>Quality Data Analyst<br>Research and Decision Support Specialist<br>Reimbursement Specialist<br>Risk Manager<br>Unit Coordinator<br>Utilization Manager<br>Utilization Review Manager | Animal Behaviorist<br>Biomedical/Clinical Engineer<br>Biomedical/Clinical Technician<br>Clinical Simulator Technician<br>Central Service Manager<br>Central Service Technician<br>Community Health Worker<br>Dietary Manager<br>Dietetic Technician<br>Environmental Health Advocate<br>Environmental Health Practitioner<br>Environmental Services/ Specialist<br>Facilities Manager<br>Food Safety Specialist<br>Health Advocate<br>Hospital Maintenance Engineer<br>Industrial Hygienist<br>Interpreter<br>Martial, Couple, Family Counselor/Therapist<br>Materials Manager<br>Medical Health Counselor<br>Mortician/ Funeral Director<br>Nurse Educator<br>Occupational Health Nurse<br>Occupational Health & Safety Expert<br>Social Worker<br>Transport Technician | Biochemist<br>Bioinformatics Scientist<br>Biomedical Chemist<br>Biomedical Manufacturing Technician<br>Biostatistician<br>Cancer Registrar<br>Cell Biologist<br>Clinical Data Management Specialist<br>Clinical Pharmacologist<br>Clinical Trials Monitor<br>Clinical Trials Research Coordinator<br>Crime Scene Investigator<br>Diagnostic Molecular Scientist<br>Forensic Biologist<br>Forensic Chemist<br>Forensic Odontologist<br>Forensic Pathologist<br>Genetic Counselor<br>Geneticist-Lab Assistant<br>Lab Technician<br>Medical Editor/Writer<br>Microbiologist<br>Molecular Biologist<br>Nurse Researcher<br>Packaging Technician<br>Patent Lawyer<br>Pharmaceutical/Clinical Project Manager<br>Pharmaceutical Sales Representative<br>Pharmaceutical Scientist<br>Pharmacologist<br>Product Safety Scientist<br>Process Development Scientist<br>Processing Technician<br>Quality Assurance Technician<br>Quality Control Technician<br>Regulatory Affairs Specialist<br>Research Assistant<br>Research Scientist<br>Toxicologist |
|  | <b>Therapeutic Services</b>  | <b>Diagnostics Services</b>   | <b>Health Informatics</b>   | <b>Support Services</b>  | <b>Biotechnology Research and Development</b>   |
| <b>Path-ways</b>                             | <b>Cluster Knowledge and Skills</b>  |   |   |  |   |
| <b>Cluster K &amp; S</b>                     | <ul style="list-style-type: none"> <li>◆ Academic Foundation ◆ Communications ◆ Systems ◆ Employability Skills ◆ Legal Responsibilities ◆ Ethics</li> <li>◆ Safety Practices ◆ Teamwork ◆ Health Maintenance Practices ◆ Technical Skills ◆ Information Technology Applications</li> </ul>   |   |   |  |   |
|  | Revised July 2009 <a href="http://www.careerclusters.org">www.careerclusters.org</a>   |   |   |  |   |