# Health Science

## Arcadia Valley 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.

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

<table>
<thead>
<tr>
<th>Assessments/Certifications:</th>
<th>College Placement Assessments, Compass, ACT, SAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clubs/Extracurricular Activities:</td>
<td>Ask your Counselor what is available at your school.</td>
</tr>
<tr>
<td>Work-Based Learning:</td>
<td>□ After School Employment □ Internship/Mentorship □ Job Shadowing □ Service Learning</td>
</tr>
<tr>
<td>Certifications:</td>
<td>□ HeartSaver First Aid □ HeartSaver CPR □ Basic Life Support (BLS)</td>
</tr>
</tbody>
</table>

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
<table>
<thead>
<tr>
<th>Therapeutic Services</th>
<th>Diagnostics Services</th>
<th>Health Informatics</th>
<th>Support Services</th>
<th>Biotechnology Research and Development</th>
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<tbody>
<tr>
<td>Acupuncturist</td>
<td>Audiologist</td>
<td>Admitting Clerk</td>
<td>Animal Behavioralist</td>
<td>Biochemist</td>
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<tr>
<td>Anesthesiologist/Assistant</td>
<td>Blood Bank Technology Specialist</td>
<td>Applied Researcher</td>
<td>Biomedical/Clinical Engineer</td>
<td>Bioinformatics Scientist</td>
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<tr>
<td>Anesthesia Technologist/Technician</td>
<td>Cardiovascular Technologist</td>
<td>Compliance Technician</td>
<td>Biomedical/Clinical</td>
<td>Biomedical Chemist</td>
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<tr>
<td>Art/Music/Dance Therapist(s)</td>
<td>Clinical Lab Technician</td>
<td>Clinical Account Manager</td>
<td>Technician</td>
<td>Biomedical Manufacturing Technician</td>
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<tr>
<td>Athletic Trainer</td>
<td>Clinical Laboratory/Technologist</td>
<td>Clinical Account Technician</td>
<td>Biostatistician</td>
<td>Biotechnology</td>
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<tr>
<td>Audiologist</td>
<td>Computer Tomography (CT)</td>
<td>Clinical Data Specialist</td>
<td>Cancer Registrar</td>
<td>Cell Biologist</td>
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<tr>
<td>Certified Nursing Assistant</td>
<td>Technologist</td>
<td>Community Services Specialists</td>
<td>Clinical Data Management Specialist</td>
<td>Clinical Data Management Specialist</td>
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<tr>
<td>Chiropractor</td>
<td>Cytogenetic Technologist</td>
<td>Data Quality Manager</td>
<td>Clinical Pharmacologist</td>
<td>Clinical Data Management Specialist</td>
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<tr>
<td>Chiropractic Assistant</td>
<td>Cytotechnologist</td>
<td>Epidemiologist</td>
<td>Clinical Trials Monitor</td>
<td>Clinical Data Management Specialist</td>
</tr>
<tr>
<td>Dental Assistant/Hygienist</td>
<td>Dentist</td>
<td>Ethicist</td>
<td>Clinical Trials Research Coordinator</td>
<td>Clinical Data Management Specialist</td>
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<tr>
<td>Dental Lab Technician</td>
<td>Diagnostic Medical Sonographer</td>
<td>Health Educator</td>
<td>Crime Scene Investigator</td>
<td>Clinical Data Management Specialist</td>
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<tr>
<td>Dietitian/Nutritionist</td>
<td>Electrocardiographic (ECG)</td>
<td>Health Information Mgmt. Administrator</td>
<td>Diagnostic Molecular Scientist</td>
<td>Clinical Data Management Specialist</td>
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<tr>
<td>Dosimetrist</td>
<td>Electroneurodiagnostic Technologist</td>
<td>Health Information Mgmt. Technician</td>
<td>Forensic Biologist</td>
<td>Clinical Data Management Specialist</td>
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<tr>
<td>EMT/Paramedic</td>
<td>Electronic Diagnostic (EEG)</td>
<td>Healthcare Access Manager</td>
<td>Forensic Chemist</td>
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<td>Endodontist</td>
<td>Neurodiagnostic Technologist</td>
<td>Healthcare Administrator</td>
<td>Forensic Odontologist</td>
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<td>Exercise Physiologist</td>
<td>Neurodiagnostic Technologist</td>
<td>Healthcare Finance Informatician</td>
<td>Forensic Pathologist</td>
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<tr>
<td>Home Health Aide</td>
<td>Nuclear Medicine Technologist</td>
<td>Information Privacy Officer</td>
<td>Genetic Counselor</td>
<td>Clinical Data Management Specialist</td>
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<td>Kinesitherapist</td>
<td>Magnetoencephalographic (MEG)</td>
<td>Managed Care Contract Analyst</td>
<td>Geneticist-Lab Assistant</td>
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<tr>
<td>Licensed Practical Nurse</td>
<td>Magnetic Resonance Imaging (MRI)</td>
<td>Medical Coder</td>
<td>Lab Technician</td>
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<tr>
<td>Massage Therapist</td>
<td>Magnetic Resonance Technologist</td>
<td>Medical Historian</td>
<td>Medical Editor/Writer</td>
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<tr>
<td>Medical Assistant</td>
<td>Mammographer</td>
<td>Medical Illustrator</td>
<td>Microbiologist</td>
<td>Clinical Data Management Specialist</td>
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<tr>
<td>Mental Health Counselor</td>
<td>Medical Librarian</td>
<td>Medical Information Technologist</td>
<td>Molecular Biologist</td>
<td>Clinical Data Management Specialist</td>
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<td>Naturopathic Doctor</td>
<td>Medical Transcriptionist</td>
<td>Medical Technologist</td>
<td>Nurse Researcher</td>
<td>Clinical Data Management Specialist</td>
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<tr>
<td>Nurse Anesthetist</td>
<td>Patient Account Manager</td>
<td>Medical/Technical Writer</td>
<td>Packaging Technician</td>
<td>Clinical Data Management Specialist</td>
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<tr>
<td>Nurse Midwife</td>
<td>Patient Account Technician</td>
<td>Medical Transcriptionist</td>
<td>Patent Lawyer</td>
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<td>Nurse Practitioner</td>
<td>Patient Advocate</td>
<td>Medical Transcriptionist</td>
<td>Pharmaceutical/Clinical Project Manager</td>
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<td>Occupational Therapist/Assistant</td>
<td>Patient Information Coordinator</td>
<td>Medical Transcriptionist</td>
<td>Pharmaceutical Sales Representative</td>
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<td>Oral Surgeon</td>
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<td>Pharmaceutical Scientist</td>
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<td>Public Health Educator</td>
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<td>Quality Data Analyst</td>
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<td>Product Safety Scientist</td>
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<td>Pediorthist</td>
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<td>Risk Manager</td>
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<td>Physical Therapist/Assistant</td>
<td>Unit Coordinator</td>
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<td>Utilization Manager</td>
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<td>Wellness Coach</td>
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</tbody>
</table>

**Cluster Knowledge and Skills**

- Academic Foundation
- Communications
- Systems
- Employability Skills
- Legal Responsibilities
- Ethics
- Safety Practices
- Teamwork
- Health Maintenance Practices
- Technical Skills
- Information Technology Applications

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