



## Health Science and Medical Technology Industry Sector Pathway Options

### Biotechnology Research and Development Pathway

Sample CTE Courses*		
Introductory	Concentration	Capstone
<ul style="list-style-type: none"> <li>• Introduction to Health Careers I</li> <li>• Introduction to Health Careers II</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to Biotechnology I</li> <li>• Medical Terminology</li> <li>• Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>• Biotechnology Assistant</li> <li>• Biotechnology Technician</li> <li>• Introduction to Biotechnology II</li> </ul>

Education Level and Related Occupations**		
High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> <li>• Biotechnology Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Biomedical Technician+</li> <li>• Biotechnology Technician+</li> <li>• Quality Assurance/Control Technician+</li> </ul>	<ul style="list-style-type: none"> <li>• Bioinformatics Specialist+</li> <li>• Biomedical Chemist+</li> <li>• Biostatistician+</li> <li>• Biotechnology Scientist+</li> <li>• Clinical Trials Researcher+</li> </ul>

### Diagnostic Services Pathway

Sample CTE Courses*		
Introductory	Concentration	Capstone
<ul style="list-style-type: none"> <li>• Hospital Occupations</li> <li>• Introduction to Health Careers I</li> <li>• Introduction to Health Careers II</li> <li>• Introduction to Imagery I</li> </ul>	<ul style="list-style-type: none"> <li>• Health: Biological Structure and Function</li> <li>• Medical Terminology</li> </ul>	<ul style="list-style-type: none"> <li>• Bioengineering Assistant</li> <li>• Medical Laboratory Assistant</li> <li>• Radiology Assistant</li> </ul>

Education Level and Related Occupations**		
High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> <li>• Medical Laboratory Aide</li> <li>• Transporter</li> </ul>	<ul style="list-style-type: none"> <li>• Biotechnology Engineer</li> <li>• Cardiology Technologist+</li> <li>• Medical Laboratory Assistant</li> <li>• Medical Laboratory Technician+</li> <li>• Radiology Technologist+</li> </ul>	<ul style="list-style-type: none"> <li>• Biotechnology Scientist+</li> <li>• Clinical Medical Technologist+</li> <li>• Geneticist+</li> <li>• Radiologist+</li> </ul>

### Health Informatics Pathway

Sample CTE Courses*		
Introductory	Concentration	Capstone
<ul style="list-style-type: none"> <li>• Computer Technology</li> <li>• Hospital Occupations</li> <li>• Introduction to Health Careers I</li> <li>• Introduction to Health Careers II</li> </ul>	<ul style="list-style-type: none"> <li>• Health: Biological Structure and Function</li> <li>• Medical Terminology</li> </ul>	<ul style="list-style-type: none"> <li>• Insurance Billing</li> <li>• Medical Coding</li> <li>• Medical Transcription</li> <li>• Skill-specific Health Informatics</li> </ul>

Education Level and Related Occupations**		
High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> <li>• Health Unit Coordinator</li> <li>• Medical Coder</li> <li>• Medical Records Clerk</li> <li>• Medical/Hospital Receptionist</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Record Technician*</li> <li>• Medical Transcriptionist+</li> <li>• Telehealth Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Health Educator</li> <li>• Health Services Administrator</li> <li>• Hospital/Nursing Home Administrator</li> <li>• Medical Librarian</li> </ul>

\*Sample CTE Courses are from the *Career Technical Education Framework for California Public Schools* (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>).

\*\*Visit ASSIST ([www2.assist.org/browseAreas.do](http://www2.assist.org/browseAreas.do)) for community college and UC/CSU information and California Career Zone ([www.cacareerzone.org](http://www.cacareerzone.org)) for occupation information.

+This occupation requires certification or licensure.

Related Career Technical Student Organization: Health Occupations Students of America (HOSA) (<http://www.cal-hosa.org/>)

Additional Industry Sector information available through the California Health Careers Consortium (<http://www.health-careers.org/>).



## Health Science and Medical Technology Industry Sector Pathway Options

### Support Services Pathway

Sample CTE Courses*		
Introductory	Concentration	Capstone
<ul style="list-style-type: none"> <li>• Introduction to Health Careers I</li> <li>• Introduction to Health Careers II</li> <li>• Introduction to Hospital Occupations</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Terminology</li> <li>• Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>• Hospital Support Services</li> <li>• Maintenance and Supply Technician</li> <li>• Medical Transporter</li> </ul>

Education Level and Related Occupations**		
High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> <li>• Central Supply Aide</li> <li>• Environmental Services Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Central Supply Technician+</li> <li>• Environmental Services Technician+</li> <li>• Mortician+</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental Health Specialist+</li> <li>• Health Educator+</li> <li>• Industrial Hygienist+</li> <li>• Materials Management Supervisor+</li> <li>• Nursing Home Administrator+</li> </ul>

### Therapeutic Services Pathway

Sample CTE Courses*		
Introductory	Concentration	Capstone
<ul style="list-style-type: none"> <li>• Introduction to Health Careers I</li> <li>• Introduction to Health Careers II</li> <li>• Introduction to Hospital Occupations</li> </ul>	<ul style="list-style-type: none"> <li>• Hospital Occupations II</li> <li>• Medical Terminology</li> <li>• Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>• Certified Nursing Assistant</li> <li>• Dental Assistant</li> <li>• Emergency Medical Technician</li> <li>• Medical Assistant</li> </ul>

Education Level and Related Occupations**		
High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> <li>• Certified Nurses Assistant+</li> <li>• Emergency Medical Technician+</li> <li>• Medical Assistant</li> <li>• Physical Therapy Aide</li> <li>• Respiratory Therapy Aide</li> </ul>	<ul style="list-style-type: none"> <li>• Dental Hygienist+</li> <li>• Fitness/Aerobics Instructor+</li> <li>• Licensed Vocational Nurse/ Registered Nurse+</li> <li>• Pharmacy Technician+</li> <li>• Registered Physical Therapy Aide+</li> </ul>	<ul style="list-style-type: none"> <li>• Dentist+</li> <li>• Exercise Physiologist+</li> <li>• Pharmacist+</li> <li>• Physical Therapist+</li> <li>• Physician Assistant+</li> </ul>

\*Sample CTE Courses are from the *Career Technical Education Framework for California Public Schools* (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>).

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