# Health Science

## South Iron 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 9
- **Comm Arts I**
  - Pre-College Algebra or high school math class
  - High School Science Course
  - High School SS Course
  - Health Classes
  - Check with high school counselor for additional course offerings
  - **SAMPLE Occupations Relating to this Pathway**
    - Dental Assistant/Hygienist
    - EMT/Paramedic
    - Health Information Coder
    - Home Health Aide
    - Lab Technician
    - Phlebotomist
    - Radiographer
    - Registered Nurse
  - **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

### Grade 10
- **Comm Arts II**
  - Pre-College Algebra or high school math class
  - High School Science Course
  - High School SS Course
  - Health Classes
  - Check with high school counselor for additional course offerings
  - **SAMPLE Occupations Relating to this Pathway**
    - Dental Assistant/Hygienist
    - EMT/Paramedic
    - Health Information Coder
    - Home Health Aide
    - Lab Technician
    - Phlebotomist
    - Radiographer
    - Registered Nurse
  - **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

### Grade 11
- **Comm Arts II**
  - High school English elective
  - *College English Comp I or Public Speaking*
  - Pre-College Algebra or high school math class
  - High School Science Course
  - *MFH College General Biology*
  - High School History or Government Course
  - *College Psychology
  - *College Sociology
  - *Med Term I & II
  - *American Political systems
  - *Gen Psych or Socio
  - Health Classes
  - High school biological sciences
  - Check with high school counselor for additional course offerings
  - **SAMPLE Occupations Relating to this Pathway**
    - Dental Assistant/Hygienist
    - EMT/Paramedic
    - Health Information Coder
    - Home Health Aide
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    - Radiographer
    - Registered Nurse
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    - Registered Nurse
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    - Nutritionist
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    - Physician (MD/DO)
    - Psychologist
    - Radiologist
    - Research Scientist
    - Speech/Language Pathologist
    - Toxicologist
    - Veterinarian
    - Physical Therapist
    - Nurse Practitioner

### Grade 12
- **Comm Arts II or Intro to Lit**
  - Pre-College Algebra or high school math class
  - High School Science Course
  - *MFH College Intro to Chemistry
  - *Gen Chem*
  - High School History or Government Course
  - *College Psychology
  - *Sociology
  - *Med Term I & II
  - *American Political systems
  - *Gen Psych or Socio
  - Health Classes
  - High school biological sciences
  - Check with high school counselor for additional course offerings
  - **SAMPLE Occupations Relating to this Pathway**
    - Dental Assistant/Hygienist
    - EMT/Paramedic
    - Health Information Coder
    - Home Health Aide
    - Lab Technician
    - Phlebotomist
    - Radiographer
    - Registered Nurse
  - **Occupations Requiring Less than Baccalaureate Degree**
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    - Registered Nurse
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    - Industrial Hygienist
    - Nutritionist
    - Occupational Therapist
    - Physician (MD/DO)
    - Psychologist
    - Radiologist
    - Research Scientist
    - Speech/Language Pathologist
    - Toxicologist
    - Veterinarian
    - Physical Therapist
    - Nurse Practitioner

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*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
### Sample Career Specialties/Occupations

<table>
<thead>
<tr>
<th>Audiologist</th>
<th>Admitting Clerk</th>
<th>Animal Behavioralist</th>
<th>Biochemist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood Bank Technology Specialist</td>
<td>Applied Researcher</td>
<td>Biomedical/Clinical Engineer</td>
<td>Bioinformatics Scientist</td>
</tr>
<tr>
<td>Cardiovascular Technologist</td>
<td>Compliance Technician</td>
<td>Biomedical/Clinical Technician</td>
<td>Biomedical Chemist</td>
</tr>
<tr>
<td>Clinical Lab Technician</td>
<td>Clinical Account Manager</td>
<td>Clinical Simulator Technician</td>
<td>Biomedical Manufacturing Technician</td>
</tr>
<tr>
<td>Clinical Laboratory/Technologist</td>
<td>Clinical Account Technician</td>
<td>Central Service Manager</td>
<td>Biostatistician</td>
</tr>
<tr>
<td>Computer Tomography (CT) Technologist</td>
<td>Clinical Data Specialist</td>
<td>Central Service Technician</td>
<td>Cancer Registrar</td>
</tr>
<tr>
<td>Cytogenetic Technologist</td>
<td>Community Services Specialists</td>
<td>Community Health Worker</td>
<td>Cell Biologist</td>
</tr>
<tr>
<td>Cytotechnologist</td>
<td>Data Quality Manager</td>
<td>Dietary Manager</td>
<td>Clinical Data Management Specialist</td>
</tr>
<tr>
<td>Dentist</td>
<td>Epidemiologist</td>
<td>Dietetic Technician</td>
<td>Clinical Pharmacologist</td>
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<tr>
<td>Diagnostic Medical Sonographer</td>
<td>Ethicist</td>
<td>Environmental Health Advocate</td>
<td>Clinical Trials Monitor</td>
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<tr>
<td>Electrocardiographic (ECG) Technician</td>
<td>Health Educator</td>
<td>Environmental Health Practitioner</td>
<td>Clinical Trials Research Coordinator</td>
</tr>
<tr>
<td>Electroneurodiagnostic Technologist</td>
<td>Health Information Mgmt. Administrator</td>
<td>Environmental Health Services/ Specialist</td>
<td>Crime Scene Investigator</td>
</tr>
<tr>
<td>Electronic Diagnostic (EEG) Technologist</td>
<td>Health Information Mgmt. Technician</td>
<td>Facilities Manager</td>
<td>Diagnostic Molecular Scientist</td>
</tr>
<tr>
<td>Exercise Physiologist</td>
<td>Healthcare Access Manager</td>
<td>Health Advocate</td>
<td>Forensic Biologist</td>
</tr>
<tr>
<td>Exercise Physiologist</td>
<td>Healthcare Administrator</td>
<td>Hospital Maintenance Engineer</td>
<td>Forensic Chemist</td>
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<tr>
<td>Genetist</td>
<td>Healthcare Finance Informatician</td>
<td>Industrial Hygienist</td>
<td>Forensic Odontologist</td>
</tr>
<tr>
<td>Geriatrician</td>
<td>Information Privacy Officer</td>
<td>Interpreter</td>
<td>Forensic Pathologist</td>
</tr>
<tr>
<td>Histotechnician</td>
<td>Managed Care Contract Analyst</td>
<td>Martial, Couple, Family Counselor/Therapist</td>
<td>Genetic Counselor</td>
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<tr>
<td>Histotechnologist</td>
<td>Medical Coder</td>
<td>Materials Manager</td>
<td>Geneticist-Lab Assistant</td>
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<tr>
<td>Magnetic Resonance Technologist</td>
<td>Medical Historian</td>
<td>Medical Health Counselor</td>
<td>Lab Technician</td>
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<tr>
<td>Mammographer</td>
<td>Medical Illustrator</td>
<td>Mortician/ Funeral Director</td>
<td>Medical Editor/Writer</td>
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<tr>
<td>Medical Technologist</td>
<td>Medical Information Technologist</td>
<td>Nurse Educator</td>
<td>Microbiologist</td>
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<tr>
<td>Medical Technologist/ Clinical Laboratory Scientist</td>
<td>Medical Librarian</td>
<td>Occupational Health Nurse</td>
<td>Molecular Biologist</td>
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<tr>
<td>Nuclear Medicine Technologist</td>
<td>Medical Transcriptionist</td>
<td>Occupational Health &amp; Safety Expert</td>
<td>Nurse Researcher</td>
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<td>Optician</td>
<td>Patient Account Manager</td>
<td>Patent Lawyer</td>
<td>Packaging Technician</td>
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<tr>
<td>Ophthalmologist</td>
<td>Patient Account Technician</td>
<td>Pharmaceutical/Clinical Project Manager</td>
<td>Patent Lawyer</td>
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<td>Ophthalmic Assistant/Technologist</td>
<td>Patient Advocate</td>
<td>Pharmaceutical Sales Representative</td>
<td>Pharmaceutical/Clinical Scientist</td>
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<td>Patient Information Coordinator</td>
<td>Pharmacokineticist</td>
<td>Pharmacologist</td>
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<td>Pathologist</td>
<td>Project Manager</td>
<td>Product Safety Scientist</td>
<td>Pharmacologist</td>
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<td>Pathologists’ Assistant</td>
<td>Public Health Educator</td>
<td>Process Development Scientist</td>
<td>Pharmacologist</td>
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<tr>
<td>Phlebotomist</td>
<td>Quality Management Specialist</td>
<td>Processing Technician</td>
<td>Pharmacokineticist</td>
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<td>Polysomnographic Technologist</td>
<td>Quality Data Analyst</td>
<td>Quality Assurance Technician</td>
<td>Product Safety Scientist</td>
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<tr>
<td>Positron Emission Tomography (PET) Technologist</td>
<td>Research and Decision Support Specialist</td>
<td>Quality Control Technician</td>
<td>Process Development Scientist</td>
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<tr>
<td>Radiologic Technologist</td>
<td>Reimbursement Specialist</td>
<td>Regulatory Affairs Specialist</td>
<td>Radiologic Technologist</td>
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<tr>
<td>Radiologist</td>
<td>Risk Manager</td>
<td>Research Assistant</td>
<td>Research Scientist</td>
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<tr>
<td>Speech-Language Pathologist</td>
<td>Unit Coordinator</td>
<td>Research Assistant</td>
<td>Toxicologist</td>
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<td></td>
<td>Utilization Manager</td>
<td>Support Services</td>
<td>Toxicologist</td>
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</tbody>
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### Therapeutic Services

- Acupunctureist
- Anesthesiologist/Assistant
- Anesthesia Technologist/Technician
- Art/Music/Dance Therapist(s)
- Athletic Trainer
- Audiologist
- Certified Nursing Assistant
- Chiropractor
- Chiropractic Assistant
- Dental Assistant/Hygienist
- Dental Lab Technician
- Dietitian/Nutritionist
- Dosimetrist
- EMT/Paramedic
- Endodontist
- Exercise Physiologist
- Home Health Aide
- Kinesiotherapist
- Licensed Practical Nurse
- Massage Therapist
- Medical Assistant
- Mental Health Counselor
- Naturopathic Doctor
- Nurse Anesthetist
- Nurse Midwife
- Nurse Practitioner
- Occupational Therapist/Assistant
- Oral Surgeon
- Orientation/Mobility Specialist
- Orthodontist
- Orthoptist
- Orophist/Prosthethist/Technician
- Podotherapist
- Perfusionist
- Pharmacist
- Pharmacy Technician
- Physical Therapist/Assistant
- Physician (MD/DO)
- Physician Assistant
- Podiatrist
- Psychologist
- Psychiatrist
- Radiation Therapist
- Recreation Therapist
- Registered Nurse
- Rehabilitation Counselor
- Respiratory Therapist
- Speech-Language Therapist
- Surgical Technician
- Veterinarian
- Veterinarian Assistant/Technician
- Vision Rehabilitation Therapist
- Wellness Coach

### Diagnostics Services

- Animal Behavioralist
- Biomedical/Clinical Engineer
- Biomedical/Clinical Technician
- Clinical Simulator Technician
- Central Service Manager
- Central Service Technician
- Community Health Worker
- Dietary Manager
- Dietetic Technician
- Environmental Health Advocate
- Environmental Health Practitioner
- Environmental Health Services/ Specialist
- Facilities Manager
- Food Safety Specialist
- Health Advocate
- Hospital Maintenance Engineer
- Industrial Hygienist
- Interpreter
- Martial, Couple, Family Counselor/Therapist
- Materials Manager
- Medical Health Counselor
- Mortician/ Funeral Director
- Nurse Educator
- Occupational Health Nurse
- Occupational Health & Safety Expert
- Social Worker
- Transport Technician

### Health Informatics

- Admitting Clerk
- Applied Researcher
- Compliance Technician
- Clinical Account Manager
- Clinical Data Specialist
- Community Services Specialists
- Data Quality Manager
- Epidemiologist
- Ethicist
- Health Educator
- Health Information Mgmt. Administrator
- Health Information Mgmt. Technician
- Healthcare Access Manager
- Healthcare Administrator
- Healthcare Finance Informatician
- Information Privacy Officer
- Managed Care Contract Analyst
- Medical Coder
- Medical Historian
- Medical Illustrator
- Medical Information Technologist
- Medical Librarian
- Medical Transcriptionist
- Patient Account Manager
- Patient Account Technician
- Patient Advocate
- Patient Information Coordinator
- Project Manager
- Public Health Educator
- Quality Management Specialist
- Quality Data Analyst
- Research and Decision Support Specialist
- Reimbursement Specialist
- Risk Manager
- Unit Coordinator
- Utilization Manager
- Utilization Review Manager

### Support Services

- Animal Behavioralist
- Biomedical/Clinical Engineer
- Biomedical/Clinical Technician
- Clinical Simulator Technician
- Central Service Manager
- Central Service Technician
- Community Health Worker
- Dietary Manager
- Dietetic Technician
- Environmental Health Advocate
- Environmental Health Practitioner
- Environmental Health Services/ Specialist
- Facilities Manager
- Food Safety Specialist
- Health Advocate
- Hospital Maintenance Engineer
- Industrial Hygienist
- Interpreter
- Martial, Couple, Family Counselor/Therapist
- Materials Manager
- Medical Health Counselor
- Mortician/ Funeral Director
- Nurse Educator
- Occupational Health Nurse
- Occupational Health & Safety Expert
- Social Worker
- Transport Technician

### Biotechnology Research and Development

- Acupunctureist
- Anesthesiologist/Assistant
- Anesthesia Technologist/Technician
- Art/Music/Dance Therapist(s)
- Athletic Trainer
- Audiologist
- Certified Nursing Assistant
- Chiropractor
- Chiropractic Assistant
- Dental Assistant/Hygienist
- Dental Lab Technician
- Dietitian/Nutritionist
- Dosimetrist
- EMT/Paramedic
- Endodontist
- Exercise Physiologist
- Home Health Aide
- Kinesiotherapist
- Licensed Practical Nurse
- Massage Therapist
- Medical Assistant
- Mental Health Counselor
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- Psychiatrist
- Radiation Therapist
- Recreation Therapist
- Registered Nurse
- Rehabilitation Counselor
- Respiratory Therapist
- Speech-Language Therapist
- Surgical Technician
- Veterinarian
- Veterinarian Assistant/Technician
- Vision Rehabilitation Therapist
- Wellness Coach

### Cluster Knowledge and Skills

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

Revised July 2009 | www.careerclusters.org