

**School of Health and Human Services – Four-Year Plan**  
**Health Science Academy**

<b>Subject</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>	<b>Sample Occupations</b>
<b>English/Language Arts</b>	Choose One: <ul style="list-style-type: none"> <li>▪ English 9</li> <li>▪ Adv English 9</li> </ul>	Choose One: <ul style="list-style-type: none"> <li>▪ English 10</li> <li>▪ Adv English 10</li> </ul>	Choose One: <ul style="list-style-type: none"> <li>▪ English 11</li> <li>▪ Adv English 11</li> <li>▪ AP English Lang &amp; Comp</li> </ul>	Choose One: <ul style="list-style-type: none"> <li>▪ English 12</li> <li>▪ Adv English 12</li> <li>▪ AP English Lit &amp; Comp</li> </ul>	<b>Anesthetist</b> <b>Athletic Trainer</b> <b>Certified Nursing Assistant</b> <b>Chiropractor</b> <b>Dental Assistant</b> <b>Dental Hygienist</b> <b>Dentist</b> <b>Dietitian/Nutritionist</b> <b>Dietetic Technician</b> <b>Emergency Medical Technician</b> <b>Home Health Aide</b> <b>Licensed Practical Nurse</b> <b>Occupational Therapist</b> <b>Occupational Therapy Assistant</b> <b>Optometrist</b> <b>Prosthetics</b> <b>Pharmacist</b> <b>Pharmacy Technician</b> <b>Physical Therapist</b> <b>Physical Therapy Assistant</b> <b>Physician (MD/DO)</b> <b>Physician Assistant</b> <b>Podiatrist</b> <b>Registered Nurse</b> <b>Respiratory Therapist</b> <b>Veterinarian</b> <b>Veterinarian Technician</b>
<b>Math</b>	<ul style="list-style-type: none"> <li>▪ Algebra I (if not taken in Grade 8)</li> <li>▪ Advanced Geometry</li> </ul>	Advanced Algebra II with Trigonometry	Advanced Pre-Calculus	AP Calculus AB	
<b>Science</b>	Choose One: <ul style="list-style-type: none"> <li>▪ Biology</li> <li>▪ Adv Biology</li> </ul>	Choose One: <ul style="list-style-type: none"> <li>▪ Chemistry</li> <li>▪ Adv Chemistry</li> </ul>	Advanced Human Anatomy & Physiology	Choose One: <ul style="list-style-type: none"> <li>▪ AP Biology</li> <li>▪ Science of Choice</li> </ul>	
<b>Social Science</b>	Choose One: <ul style="list-style-type: none"> <li>▪ World History</li> <li>▪ Adv World History</li> </ul>	Choose One: <ul style="list-style-type: none"> <li>▪ US History 10</li> <li>▪ AP US History 1</li> </ul>	Choose One: <ul style="list-style-type: none"> <li>▪ US History 11</li> <li>▪ AP US History 2</li> </ul>	<ul style="list-style-type: none"> <li>▪ Government (1/2 credit)</li> <li>▪ Economics (1/2 credit)</li> </ul>	
<b>Required Electives</b>	Career Preparedness LIFE PE	NA	NA	NA	
<b>Pathway Courses</b>	Foundations of Health Science (Counts as Health which is required for the Alabama High School Diploma.)	Patient Care Technician	Sports Medicine Intermediate	Health Science Internship (Semester 1) Advanced Health Seminar (Semester 2)	
<b>Additional Courses</b>	AP Chemistry, Dietetics, Food & Nutrition, AP Physics, Psychology				
<b>College and/or Career Readiness Indicators</b>	Credential: BLS Instructor with Healthcare Provider, Certified Patient Care Technician (CPCT), Certified Medical Administrative Assistant (CMAA), Certified Pharmacy Technician (CPhT), Lifeguard Certification (American Lifeguard Association or American Red Cross) Dual Enrollment: Jefferson State Community College or Lawson State Community College				
<b>Club Membership</b>	HOSA Future Health Professionals (Health Occupations Student Organization)				
<b>Academy Experiences</b>	Guest Speakers, Fieldtrips/Tours, Field Experiences, Senior Project				
<b>Industry Partners</b>	Andrews Sports Medicine and St. Vincent’s Hospital				
<b>Membership</b>	This academy is open only to students enrolled at Shades Valley High School.				
<b>Coordinators</b>	Mrs. Anna Pike - (205) 379-3300 – <a href="mailto:apike@jefcoed.com">apike@jefcoed.com</a>				

**Updated: April 2017**

# Health Science Academy

Students in the Health Science Academy are focused primarily on changing the health status of patients over time. Health professionals in this pathway work directly with patients. They may provide care, treatment, counseling and/or health education information.

## **490007 Foundations of Health Science**

**1 Credit Grade 9**

Foundations of Health Science introduces students to a wide range of health careers. Integrated academics combined with healthcare knowledge and skills provide the framework for a strong healthcare delivery system in the twenty-first century. This course is the prerequisite for all the health science courses. It is recommended for all students who want to prepare for further study of health-related fields at the postsecondary level.

**Prerequisite:** None

**Note:** This course counts for the Health class required for the Alabama High School Diploma.

**Fee:** \$25.00

## **490027 Patient Care Technician**

**1 Credit Grade 10**

Patient Care Technician is a one-credit course that provides students the opportunity to become effective and efficient multi-skilled healthcare providers. Students will develop a working knowledge of advanced patient care skills, vital signs, 12-lead EKG's, oxygen therapy, basic phlebotomy via simulation, and specimen collection and processing. Essential workforce skills and safety are emphasized, as well as, professional ethics and legal responsibilities. Students will ascertain employability skills and soft skills required by business and industry. Upon successful completion of required theory, lab, and simulation, students may be eligible to sit for Patient Care Technician Certification.

## **590033 Sports Medicine Intermediate**

**1 Credit Grade 11**

Sports Medicine Intermediate is a one-credit course that teaches fundamental skills to include therapeutic exercise regimens within the field of sports medicine. Students will explore the study of sports medicine and the relationship to risk management and injury prevention. Students will demonstrate an understanding of anatomy and physiology, with emphasis on the musculoskeletal system. This course emphasizes the importance of health promotion, wellness, injury and disease prevention. Students will examine sports medicine facilities, policies, procedures and protocols utilized in patient care.

**Prerequisites:** Patient Care Technician

**Fee:** \$25.00

## **490013 Health Science Internship**

**1 Credit Grade 12**

### **1<sup>st</sup> Semester**

Health Science Internship is a one-credit course focusing on basic knowledge and skills necessary for beginning health care workers. Health Science Internship reinforces and applies knowledge learned in classroom and laboratory settings.

**Prerequisite:** Sports Medicine Intermediate

**Fee:** \$25.00

## **490016 Advanced Health Seminar**

**1 Credit Grade 12**

### **2<sup>nd</sup> Semester**

Advanced Health Seminar is a one-credit course that provides an individualized learning experience for students who desire an in-depth study in at least one occupational area in the Health Science cluster. This course is a work-based, project-based research process.

**Prerequisite:** Foundations of Health Science and Health Science Internship

**Fee:** \$25.00