



## BIOMEDICAL LABORATORY & HEALTH SCIENCES 2019-2020

<b>9</b> (1 Option)	<b>Introduction to Biomedical Laboratory &amp; Health Sciences</b> To Medical Health Systems and Structures <i>Repeat course if fail</i>
<b>10</b> (1 option)	Passed Introduction to Medical Health Sciences <b>Medical Health Systems and Structures</b> To Microbiology and Clinical Lab Techniques  <i>CareerSafe OSHA &amp; HIPPA Certifications</i>
<b>11</b> ✍️ (1 option)  <b>OR</b> <b>12</b> ✍️ (1 option)	Passed Medical Health Systems and Structures <b>Microbiology and Clinical Lab Techniques</b> To Biotechnology and Informatics ----- AND -----  <b>Careers &amp; Financial Management</b>  <i>Antiseptic Techniques &amp; OSHA Blood Bourne Pathogens Certifications</i>
	Passed Microbiology and Clinical Lab Techniques <b>Biotechnology and Informatics</b>

**\*This is a Dual Credit, Full-Year Course**

✍️ <b>PATHWAY EXAMS/CERTIFICATIONS</b>
<b>PRECISION EXAMS HEALTH SCIENCES INTRO (700) (CTE ENDORSEMENT)</b>
CDOS SKILLSUSA EMPLOYABILITY EXAM (4 + 1)



## BIOMEDICAL LABORATORY & HEALTH SCIENCES

### **Intro to Biomedical Sciences** 9<sup>th</sup> Grade

**Description:** An introductory course that engages scholars in the study of the fundamental concepts of Medical Health Sciences. Scholars will focus on human body systems, including both structure and function, with the emphasis on diseases, disorders, and biomedical therapies. Scholars will also understand how different healthcare professionals play a vital role in an individual's health care.

### **Medical Health Systems and Structures** 10<sup>th</sup> Grade

**Description:** Explores how the combination of various systems and structures in healthcare and medicine provide quality health care for an entire population. Scholars will analyze legal and ethical issues from the field, as well as professional standards for and characteristics of successful health care workers.

### **Microbiology and Clinical Lab Tech-niques** 11-12<sup>th</sup> Grade

**Description:** In this course, scholars learn the fundamentals of microbiology and laboratory techniques as they pertain to understanding and diagnosing human disease. Scholars will learn how to properly collect, handle, and process specimens using aseptic and sterile techniques. Key topics include health worker safety, infection control, identification and transmission of pathogens. Scholars will learn the principles for the proper collection and analysis of urine, blood and other biological samples that aid the diagnosis, prevention, prognosis, and treatment of disease.

### **Biotechnology & Informatics** 11-12<sup>th</sup> Grade

**Description:** In this course, scholars explore the scope and role of biotechnology and informatics in the healthcare and medical industry. The intersection of biology and technology is harnessed to serve many purposes including: gene therapies, drug therapies, and biologics. Scholars will survey the methods and applications of biotechnology and examine the impact of developments in the field .

**SCHOLARS INTERESTED IN THIS PATHWAY CAN CONTACT:**

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