



EAST LAKE HIGH SCHOOL

BIOMEDICAL SCIENCE PROGRAM

WELCOME TO THE CAPTIVATING REALM OF BIOMEDICAL SCIENCE, WHERE HIGH SCHOOL STUDENTS EMBARK ON A FOUR-YEAR, THRILLING JOURNEY OF DISCOVERY AT THE INTERSECTION OF BIOLOGY, MEDICINE, AND CUTTING-EDGE TECHNOLOGY.

YEAR 1

PRINCIPALS OF BIOMEDICAL SCIENCE

THIS HIGH SCHOOL COURSE IS WHERE LEARNING IS AN ADVENTURE AND THE PURSUIT OF KNOWLEDGE KNOWS NO BOUNDS. THROUGH A HANDS-ON, INQUIRY-BASED APPROACH, YOU WILL NOT ONLY GAIN A DEEP UNDERSTANDING OF THE BIOLOGICAL CONCEPTS CENTRAL TO BIOMEDICAL SCIENCE BUT ALSO DEVELOP ESSENTIAL SKILLS SUCH AS CRITICAL THINKING, PROBLEM-SOLVING, AND TEAMWORK. GET READY TO EMBARK ON A TRANSFORMATIVE EDUCATIONAL EXPERIENCE THAT WILL EMPOWER YOU TO MAKE A DIFFERENCE IN THE WORLD OF MEDICINE AND SCIENTIFIC EXPLORATION.

YEAR 3

MEDICAL INTERVENTIONS

IN THIS COURSE, PARTICIPANTS WILL ENGAGE IN A DEEP DIVE INTO THE ART AND SCIENCE OF MEDICAL INTERVENTIONS, GAINING INSIGHTS INTO THE DIVERSE RANGE OF STRATEGIES EMPLOYED TO DIAGNOSE, TREAT, AND PREVENT DISEASES. THROUGH HANDS-ON EXPERIMENTS, REAL-WORLD CASE STUDIES, AND INTERACTIVE PROJECTS, STUDENTS WILL NOT ONLY DEVELOP A COMPREHENSIVE UNDERSTANDING OF MEDICAL TECHNIQUES BUT ALSO HONE CRITICAL PROBLEM-SOLVING SKILLS AND ETHICAL DECISION-MAKING ABILITIES CRUCIAL IN THE FIELD OF HEALTHCARE. FROM EXPLORING THE PARTICULARS OF GENETIC ENGINEERING TO UNDERSTANDING THE COMPLEXITIES OF PUBLIC HEALTH INTERVENTIONS, THIS COURSE SERVES AS A GATEWAY FOR STUDENTS INTERESTED IN PURSUING CAREERS IN MEDICINE, BIOTECHNOLOGY, AND HEALTHCARE. WELCOME TO THE MEDICAL INTERVENTIONS COURSE WHERE THEORY MEETS PRACTICE, AND THE FUTURE OF MEDICINE COMES TO LIFE!

YEAR 2

HUMAN BODY SYSTEMS

THIS HIGH SCHOOL COURSE IS DESIGNED TO PROVIDE STUDENTS WITH A COMPREHENSIVE UNDERSTANDING OF THE VARIOUS SYSTEMS THAT WORK SEAMLESSLY TOGETHER TO SUSTAIN LIFE. FROM THE COMPLEX CIRCUITRY OF THE NERVOUS SYSTEM TO THE RHYTHMIC HARMONY OF THE CARDIOVASCULAR SYSTEM, STUDENTS WILL UNRAVEL THE MYSTERIES OF ANATOMY AND PHYSIOLOGY. THROUGH A BLEND OF INTERACTIVE LESSONS, HANDS-ON LABORATORY EXPERIENCES, AND ENGAGING PROJECTS, PARTICIPANTS WILL NOT ONLY ACQUIRE KNOWLEDGE OF THE STRUCTURE AND FUNCTION OF THE HUMAN BODY SYSTEMS BUT ALSO CULTIVATE A PROFOUND APPRECIATION FOR THE DELICATE BALANCE THAT SUSTAINS HEALTH. WELCOME TO THE HUMAN BODY SYSTEMS COURSE WHERE THE STUDY OF LIFE BEGINS!

YEAR 4

BIOMEDICAL INNOVATIONS

THIS IS A HIGH SCHOOL COURSE DESIGNED TO INSPIRE THE NEXT GENERATION OF PROBLEM SOLVERS, CRITICAL THINKERS, AND BIOMEDICAL PIONEERS. BIOMEDICAL INNOVATIONS GOES BEYOND TRADITIONAL BIOLOGY COURSES, ENCOURAGING STUDENTS TO EXPLORE CUTTING-EDGE RESEARCH AND APPLY THEIR KNOWLEDGE TO REAL-WORLD CHALLENGES IN THE FIELD OF BIOMEDICINE. THROUGHOUT THE COURSE, STUDENTS WILL DELVE INTO THE PROCESS OF BIOMEDICAL INNOVATION, FROM IDENTIFYING PRESSING HEALTHCARE ISSUES TO DESIGNING AND IMPLEMENTING THEIR OWN SOLUTIONS. BY ENGAGING IN COLLABORATIVE PROJECTS, LABORATORY EXPERIMENTS, AND CASE STUDIES, PARTICIPANTS WILL DEVELOP A HOLISTIC UNDERSTANDING OF THE BIOMEDICAL FIELD, EXPLORING TOPICS SUCH AS GENETICS, BIOINFORMATICS, AND MEDICAL TECHNOLOGY. WELCOME TO BIOMEDICAL INNOVATIONS WHERE CURIOSITY SPARKS INVENTION, AND THE FUTURE OF HEALTHCARE IS IN YOUR HANDS!

SHADOWING OPPORTUNITIES

NOVEMBER 16
NOVEMBER 20
DECEMBER 7
DECEMBER 14
JANUARY 4
JANUARY 11



SCAN
ME

CONTACT US!

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