



# SAINT LOUIS MEDICAL AND BIOSCIENCE MAGNET HIGH SCHOOL (OPENING IN AUGUST 2013)



450 Des Peres  
Saint Louis, MO

August 23, 2012



# **SAINT LOUIS MEDICAL & BIOSCIENCE MAGNET HIGH SCHOOL**

## **PURPOSES:**

- **TO PROVIDE A COMPREHENSIVE AND CHALLENGING PRE-COLLEGE ACADEMIC AND MEDICALLY-ORIENTED EDUCATIONAL PROGRAM THAT DOES NOT DUPLICATE THE HEALTH CARE PROGRAMS AT MILLER CAREER ACADEMY, GATEWAY STEM AND BEAUMONT TECHNICAL HIGH SCHOOLS**
- **TO MOTIVATE AND ENABLE STUDENTS TO PURSUE POSTSECONDARY MEDICAL AND BIOSCIENCE RESEARCH CAREERS**
- **TO PROVIDE, WITH OUR LOCAL MEDICAL PARTNERS, CLINICAL LEARNING EXPERIENCES AND MEDICAL AND BIOSCIENCE RESEARCH OPPORTUNITIES**
- **TO CREATE AN EFFECTIVE, LOCAL PIPELINE OF STUDENTS PREPARED FOR CAREERS IN MEDICINE AND BIOMEDICAL RESEARCH IN THE SAINT LOUIS REGION**



## **SAINT LOUIS MEDICAL AND BIOSCIENCE MAGNET HIGH SCHOOL**

### **RATIONALE:**

- **HEALTH CARE IS, CONSISTENTLY, ONE OF THE FASTEST GROWING INDUSTRIES IN THE NATION.**
- **BETWEEN 2012-2018, THE HEALTH CARE SECTOR IN MISSOURI IS EXPECTED TO GROW BY 16.63%.**
- **THE MO DEPARTMENT OF ECONOMIC DEVELOPMENT LISTS MEDICAL AND HEALTH-RELATED AREAS IN THE TOP 5 OF THE 50 FASTEST GROWING OCCUPATIONS.**
- **MEDICAL AND BIOMEDICAL RESEARCH ARE VERY STRONG IN THE SAINT LOUIS REGION WITH GENERAL PRACTICE AND TEACHING/RESEARCH HOSPITALS THAT ANNUALLY RANK VERY HIGH ON THE LIST OF “AMERICA’S BEST HOSPITALS” AND OTHER PUBLICATIONS.**



## **SAINT LOUIS MEDICAL AND BIOSCIENCE MAGNET HIGH SCHOOL**

### **POTENTIAL PARTNERS:**

- **BJC HEALTHCARE**
- **BARNES JEWISH HOSPITAL**
- **WASHINGTON UNIVERSITY SCHOOL OF MEDICINE**
- **SAINT LOUIS UNIVERSITY HOSPITAL**
- **SAINT LOUIS UNIVERSITY SCHOOL OF MEDICINE**
- **SAINT LOUIS COLLEGE OF PHARMACY**
- **COLLEGE OF OPTOMETRY, UNIVERSITY OF MISSOURI-ST. LOUIS**
- **SAINT LOUIS COMMUNITY COLLEGE**
- **BIOSTL, ADVANCING ST. LOUIS BIOSCIENCE**
- **CORTEX, IN THE ST. LOUIS BIOSCIENCE DISTRICT**
- **SAINT LOUIS AGENCY ON TRAINING AND EMPLOYMENT (SLATE)**



## **SAMPLE FOUR YEAR COURSE SEQUENCE**

### **(SAMPLE FROM DeBAKEY HIGH SCHOOL FOR THE HEALTH PROFESSIONS)**

<b>9<sup>TH</sup> GRADE</b>	<b>10<sup>TH</sup> GRADE</b>	<b>11<sup>TH</sup> GRADE</b>	<b>12<sup>TH</sup> GRADE</b>
<b>ENGLISH I</b>	<b>ENGLISH II</b>	<b>ENGLISH III</b>	<b>ENGLISH IV</b>
<b>WORLD GEOGRAPHY</b>	<b>WORLD HISTORY</b>	<b>U.S. HISTORY</b>	<b>MACRO ECONOMICS U.S. GOVERNMENT</b>
<b>ALGEBRA I AND GEOMETRY</b>	<b>ALGEBRA II</b>	<b>PRE-CALCULUS</b>	<b>AP CALCULUS</b>
<b>BIOLOGY AND INTEGRATED PHYSICS AND CHEMISTRY</b>	<b>CHEMISTRY</b>	<b>PHYSICS</b>	<b>AP BIOLOGY, CHEMISTRY, OR PHYSICS</b>
<b>ACT PREPARATION (1 SEM) AND STUDY SKILLS (1 SEM)</b>	<b>FOREIGN LANGUAGE (FRENCH OR SPANISH)</b>	<b>FOREIGN LANGUAGE (FRENCH OR SPANISH)</b>	<b>FINE ARTS: ARTS OR THEATER ARTS</b>
<b>PHYSICAL EDUCATION</b>	<b>PERSONAL FINANCE</b>	<b>MOLECULAR BIOLOGY OR STATISTICAL ANALYSIS</b>	<b>SCIENTIFIC RESEARCH AND DESIGN</b>
<b>PRINCIPLES OF HEALTH SCIENCE</b>	<b>HEALTH SCIENCE I. INTEGRATED WITH ANATOMY &amp; PHYSIOLOGY AND MEDICAL TERMINOLOGY</b>	<b>PRACTICUM IN HEALTH SCIENCE I</b>	<b>PRACTICUM IN HEALTH SCIENCE II</b>



## **SAINT LOUIS MEDICAL AND BIOSCIENCE MAGNET HIGH SCHOOL**

### **REQUIRED CURRICULA:**

- **MATH AND SCIENCE SUMMER ACADEMY FOR ALL STUDENTS ENTERING GRADE 9;**
- **FIVE (5) CREDITS OF MATHEMATICS, INCLUDING AP CALCULUS;**
- **FIVE (5) CREDITS OF SCIENCE, INCLUDING AP BIOLOGY, AP CHEMISTRY OR AP PHYSICS;**
- **ONE (1) SEMESTER OF STUDY SKILLS AND ONE (1) SEMESTER OF ACT PREPARATION;**
- **TWO-THREE (2-3) YEARS OF THE SAME FOREIGN LANGUAGE;**
- **FOUR (4) YEARS OF HEALTH SCIENCE TECHNOLOGY (INCLUDING A 2-PERIOD BLOCK IN 11<sup>TH</sup> AND 12<sup>TH</sup> GRADE) ;**  
**AND,**
- **A MINIMUM OF 100 HOURS OF COMMUNITY SERVICE.**





# **SAINT LOUIS MEDICAL AND BIOSCIENCE MAGNET HIGH SCHOOL**

## **ENROLLMENT:**

- **75-100 GRADE 9 STUDENTS ACCEPTED FOR THE 2013-2014 SCHOOL YEAR**
- **TOTAL 9-12 ENROLLMENT WILL BE 350-400 STUDENTS**

## **ENTRANCE REQUIREMENTS:**

- **FINAL 7<sup>TH</sup> GRADE REPORT CARD**
- **TEST RECORD (MAP)**
- **EXCELLENT ATTENDANCE RECORD (DOCUMENTED)**
- **TWO LETTERS OF RECOMMENDATION (CURRENT TEACHER, COUNSELOR, PRINCIPAL )**
- **ADMISSION EXAM AND ENTRANCE ESSAY**
- **IF ACCEPTED, ATTEND THE SAINT LOUIS MEDICAL AND BIOSCIENCE MAGNET HIGH SCHOOL SUMMER ACADEMY**

# SAINT LOUIS MEDICAL AND BIOSCIENCE MAGNET HIGH SCHOOL

## QUESTIONS?

