Martin Luther King Jr., Senior High School Career Pathways





MSAT Pathway





Principal: Damian Perry Pathway Lead: Carrie Russell

OVERVIEW OF THE MSAT PATHWAY

The King MSAT (Math, Science, Applied Technology) Pathway is designed for students that are prepared to take honors math and science classes while exploring careers in the engineering and medical professions. The goal of a STEM pathway is to help students develop problem solving skills through the use of collaborative, open ended projects. Students in this pathway will pick either the engineering or the medical tracks and take courses that will support most students attending a four year university in a STEM field upon graduation from King High School.

According to a study done by the National Science Foundation, workers with a degree in a Science or Engineering field (or related field) can expect to earn more money than workers without an S&E degree during all stages of their career.

Median salaries for workers with a bachelor's degree or higher, by broad field of degree and years since highest degree: 2019



Potential Engineering Careers

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Possible Career	Education	Average	
Choice		Salary	
IT Support Specialist	AD	\$48,456	
Programmer	AD/BS	\$73,300	
Web Developer	AD/BS	\$76,000	
Industrial Engineer	BS	\$80,500	
Mechanical Engineer	BS	\$85,700	
Statistician	BS	\$86,600	
Actuary	BS	\$105,100	
Software Developer	BS	\$108,700	

Potential Medical Careers

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Possible Career	Education	Average	
Choice		Salary	
EMT	Certificate	\$45,100	
Biologist	BS	\$74,100	
Registered Nurse	BS	\$92,800	
Physician's Assistant	MS	\$115,700	
Physician	MD	\$155,600	
Dentist	MD	\$216,300	
Surgeon	MD	\$298,000	
Anesthesiologist	MD	\$327,300	

KING ALUM CAREER SPOTLIGHT



Travis M. Spencer Head of Supplier Diversity & Inclusion Ford Motor Company

Travis Spencer graduated from King HS in 2007 and went on to earn a BS in Accounting and a MBA from the University of Detroit Mercy. While still in college, Travis interned for Ford Purchasing and has worked at Ford full time since 2011 in various jobs of increasing responsibility.

MSAT COURSE PROGRESSION



9th Grade

Engineering Track



Math: Algebra 1 Honors or Geometry

Science: Biology

10th Grade Elective: AP Computer Science Principles

Math: Geometry Honors or Algebra 2

Science: Chemistry

11th Grade Elective: Engineering Technology (CAD)

Math: Algebra 2 Honors or Precalculus

Science: Physics

12th Grade Elective: Robotics - Mechatronics

Math: Precalculus or AP Calculus

Science:



Medical Track



Math: Algebra 1 Honors or Geometry

Science: Biology

10th Grade Elective: Anatomy and Physiology

Math: Geometry Honors or Algebra 2

Science: Chemistry

11th Grade Elective: AP Psychology

Math: Algebra 2 Honors or Precalculus

Science: Physics

12th Grade Elective: Sports Medicine

Math: Precalculus or AP Calculus

Science:



