

MANUFACTURING and DESIGN (MaD)

John F. Kennedy Manufacturing & Design High School

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<http://www.kennedymad.com/>

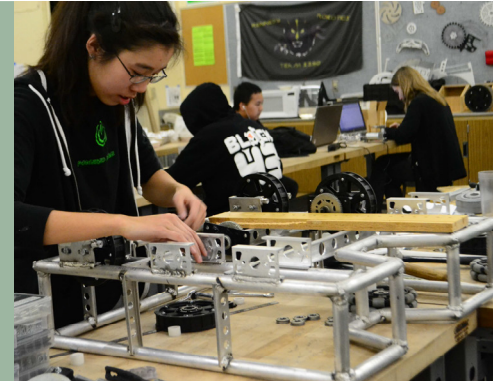


MISSION

Manufacturing and Design (MaD) is a four-year program with a focus on both college and career readiness. Students learn how to use industry level technology while taking advanced classes and earning college credits. MaD not only prepares students for college, but also gets them ready to join the workforce.

DESCRIPTION

MaD offers many diverse opportunities for students interested in product design and development processes, the principles of design, computer aided design, fabrication and manufacturing process, sustainability, and the principles of business and entrepreneurship. This rigorous sequence of courses and classroom experiences infused with cross curricular problem-based projects and practical applications encourage outcome-based learning and celebrate all students' achievements. This program also provides students with the skills, experiences and opportunities to access a wide range of post-secondary education and workforce development options.



Increasing
creative confidence
through
Linked Learning



WHAT I LIKE
ABOUT **my**
pathway

Pathway Student Outcomes

- All MaD Career Technical Education (CTE) Courses are college articulated
- MaD students can earn up to 12 college credits
- Paid Internships
- MaD students competed in state, national and world robotics competitions

““Last year we **built a robot** that plays basketball!

How awesome is that? You can't get this **kind of education** from a textbook.”

—Student

“The JFK Manufacturing & Design Pathway will give you **skills that will prepare you** to be an industrial designer, mechanical, manufacturing, biomechanical, or electrical engineer, CNC machinist, CAD/CAM specialist, welder, auto technician, or a career in robotics. Our classes provide you the opportunity to **express yourself** through the design and building of cool things!”

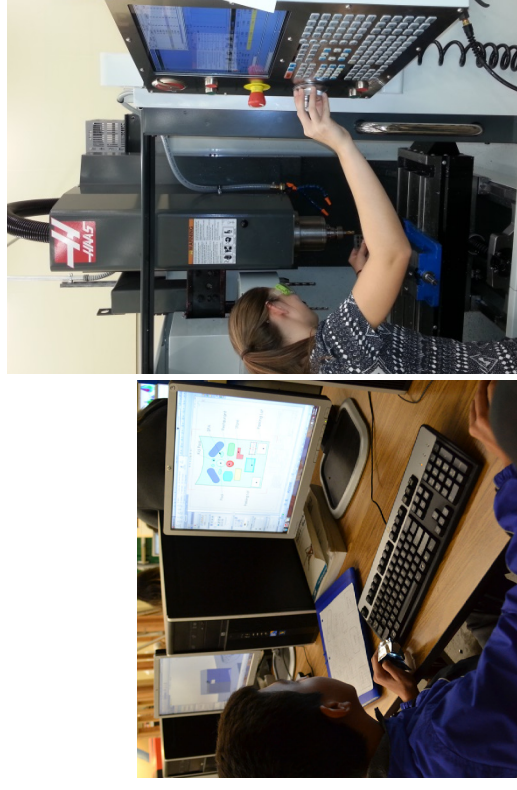
—Instructor

PROGRAM OF STUDY					RELATED CAREERS
CAREER EDUCATION COURSES	9 th GRADE	10 th GRADE	11 th GRADE	12 th GRADE	
ACADEMIC CORE COURSES	<ul style="list-style-type: none">• Architecture Design	<ul style="list-style-type: none">• Principles of Engineering	<ul style="list-style-type: none">• Intro to Engineering and Energy	<ul style="list-style-type: none">• Advanced Engineering and Energy	
	<ul style="list-style-type: none">• Advanced English 9• Integrated Math I• Physical Science• Contemporary Global Issues/Geography	<ul style="list-style-type: none">• Advanced English 10• Integrated Math II• Biology• World History	<ul style="list-style-type: none">• English 11• Integrated Math III• Chemistry• US History	<ul style="list-style-type: none">• English 12• Integrated Math III+• Physics• US Government/Economics	
ADDITIONAL GRADUATION REQUIREMENTS	2 years World Language, 1 year Art Elective, 2 years of Physical Education				
WORK-BASED LEARNING OPPORTUNITIES	<ul style="list-style-type: none">• 7th period Robotics Club• Peer tutors• Robotics Competitions• Internships• Work Site Tours				

For more information on SCUSD's Linked Learning Pathways, visit www.scusd.edu/linkedlearning

PARTNERS

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