Engineering & Mathematics		e, Technology, gineering & Mathematics	Engineering and Technology				
Cluster Overview : Planning, managing, and providing scientific research and professional and technical services			Career Goal (<i>O*NET Code</i>): Mechanical Engineers (17-2141), Aerospace Engineers (17-2011), Mechanical Engineering Technicians (17-3027), Engineering		Student Name:		
and research and development services.		development services.	SUGGESTED COURSEWORK		EXTENDED LEARNING EXPERIENCES		
Je ol					Curricular Experiences:		Extracurricular Experiences:
High School Scho	8th	HS Courses:			BEST Robotics, Inc.		Destination ImagiNation
					FIRST Robotics Competition	<u>L</u>	High School Students United with NASA
		Como Coursos	English I World Ge	ography Professional Communications	Project Lead the Way		International Bridge Building Contest Marine Advanced Technology Education Center
	th	Core Courses:	Biology Language	s other than English I	The Infinity Project		National Engineering Design Competition
	6	Career-Related			<u>The limity Hoject</u>		UIL Academic Competitions
		Electives:	Concepts of Engineering and Technology				VEX Robotics Competition
			English II	World History	Conservation Final State		Samia Lammina Provincia
	Ч	Core Courses:	Geometry Languages other than English II Chemistry		Career Learning Experiences:		Campus Service Organizations
	10t				Job Shadowing		Community Service Volunteer
		Career-Related	Mechanical Engineering		Internship		Peer Mentoring/Peer Tutoring
		Electives:	Sectives:				
		Core Courses:	Algebra II	Onned States History			
	1th		Physics or Principles of Technology				
	1	Career-Related	areer-Related Advanced Engineering Design or Languages other than English III		COLLEGE CREDIT OPPORTUNITIES High School		
		Electives:					
		English IV Government/Economics		Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Pren) if possible. List those courses that count for college credit on your campus			
	th	Core Courses:	nvironmental Sciences				
	12	Career-Related	ted Career Preparation I or Languages other than English IV		-		
		Electives:					
	lob 1g	Central Services Technician Office Machine Repairer Survey Assistant				Professional Associations:	
	the-J ainir					American Chemical Society	
	On-t Tr:					American Institute of Chemical Engineering	
	es			Career Options:		American Society of Agricultural & Biological	
	ficat	AutoCAD Architectur	AutoCAD Civil 3D	OSHA CareerSafe Revit Architecture	Evrionmental Engineering	Mechanical & Electrical Designer	Engineers
	erti				Technician	Mechanical & Electrical Drafter	American Society of Civil Engineers
	C	NOTE: Students may earn all or part of these certificates as part of the high school experience.			Career Ontions		American Society for Engineering Education
econdary	tiate ees	Computer Science	Engineering	Engineering Technology	Electronics Technician	Civil Engineering Technician	Electronics Technicians Association International
	ssoc Jegr			<u> </u>			Institute of Electrical and Electronic Engineers
	Bachelor A Degrees I						International Technology Education Association
		Aerospace Computer			Career Options:		Mathematical Association of America
		Chemical	Electrical	Manufacturing Mechanical Systems	Engineering Technologist	Engineer	National Academy of Engineering National Coalition for Electronics Education
tse		Civil	Industrial	Weenanicar Systems			National Electronics Service Dealers Association
Post	iduate grees	Aerospace	Computer		Career Options:		Society of Automotive Engineers
		Chemical	Electrical	Manufacturing	Corporate Engineering	Administration and Management	Society of Women Engineers
	Gra Deş	Civil	Industrial	Mechanical Systems	Medicine Analyst	Engineering Technology	
	Students	may select other elective cou	irses for personal enrichment purposes.		This plan of study serves as a guide, alor	ng with other career planning materials, for pursuing	g a career path and is based on the most recent information as of 2009. All
					plans meet high school graduation requi	irements as well as college entrance requirements.	

Science, Technology, Engineering and Mathematics: Engineering and Technology: Mechancial Engineer - June, 2009