ENDORSEMENT	Public Service		
CAREER PATHWAY	**Biomedical Science-**PLTW		
Year 1	Year 2	Year 3	Year 4
Principles of Biomedical Science(8434.HT0C.Y) Student work involves the study of human medicine, research processes and an introduction to bioinformatics. The course is designed to provide an overview of all the courses in the biomedical Sciences program and to lay the scientific foundation necessary for student success.	**Human Body Systems** (8436.HT0C.Y) Students engage in the study of the processes, structures, and interactions of the human body systems. Students work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.	**Medical Interventions** (8438.HT0C.Y) Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of interventions of the future.	**Project-Based Research: Biomedical Science** (UT-Austin/dual credit) Students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution. and/or **World Health Research**(8432.RC0C.Y)

ENDORSEMENT	STEM		
CAREER PATHWAY	**Civil Engineering & Architecture-** PLTW		
Year 1	Year 2	Year 3	Year 4
Math requirement NOT MET **Principles of Applied Engineering** (8680.RC0C.Y) or Math requirement MET **Intro to Engineering Design** (8760.HT0C.Y)	**Intro to Engineering Design** (8760.HT0C.Y) or **Principles of Engineering** (8762.HT0C.Y)	**Principles of Engineering** (8762.HT0C.Y) or **Civil Engineering & Architecture** (8768.HT0C.Y)	**Digital Electronics** (8764.HT2C.Y) and/or **Scientific Research & Design – Civil Engineering**

ENDORSEMENT	STEM		
CAREER PATHWAY	**Aerospace Engineering**- PLTW		
Year 1	Year 2	Year 3	Year 4
Math requirement NOT MET **Principles of Applied Engineering** (8680.RC0C.Y) or Math requirement MET **Intro to Engineering Design** (8760.HT0C.Y)	**Intro to Engineering Design** (8760.HT0C.Y) or **Principles of Engineering** (8762.HT0C.Y)	**Principles of Engineering** (8762.HT0C.Y) or **Aerospace Engineering** (8766.HT0C.Y)	**Digital Electronics** (8764.HT2C.Y) or **Scientific Research & Design – Rocketry** (8722.HC1C.Y)

ENDORSEMENT	STEM		
CAREER PATHWAY	**Manufacturing Engineering-**PLTW		
Year 1	Year 2	Year 3	Year 4
Math requirement NOT MET **Principles of Applied Engineering** (8680.RC0C.Y) or Math requirement MET **Intro to Engineering Design** (8760.HT0C.Y)	**Intro to Engineering Design** (8760.HT0C.Y) or **Principles of Engineering** (8762.HT0C.Y)	**Principles of Engineering** (8762.HT0C.Y) or **Computer Integrated Manufacturing** (8770.HT0C.Y)	**Digital Electronics** (8764.HT2C.Y) or **Scientific Research & Design – Manufacturing Engineering**