EL DORADO UNION HIGH SCHOOL DISTRICT EDUCATIONAL SERVICES Course of Study Information Page

DISTRICT COURSE NUMBER		4-DIGIT STATE	COURSE CODE (COMPLETED BY SILT) 6012
Rationale:	Honors Engineering Design PLTW high school engineering which students work in team open-ended technical proble course applies and concurrent mathematics, science, and t	ng program. It is an engine is to design and develop a im by applying the enginee intly develops secondary le	eering research course in n original solution to a valid ering design process. The
Course Description that will be in the Course Directory:	students will perform researd After carefully defining the p their solution. Finally, studer an outside panel. While prog students will work closely wi	ch to choose, validate, and roblem, teams of students at teams will present and d gressing through the engine th a community mentor an immunication and interpers	will design, build, and test efend their original solution to eering design process, d experts and will continually sonal skills, their creative and
How Does this Course align with or meet State and District content standards?	The Project Lead the Way curriculum, including Introduction to Engineering Design, focuses on making math and science relevant for students. The approach used is called APPB-learning (activities, projects, and problem-based learning). By engaging in hands-on, real-world projects, students understand how the material covered in class can be applied in their everyday lives. Learning activities will include teacher-led instruction, cooperative learning, and project-based learning. Technology will be used to enhance students learning, and provide real-world applications. EDD should be taken as the final capstone PLTW course since it requires application of the knowledge and skills from the PLTW foundation courses.		
NCLB Core Subjects:	Select up to two that apply: Arts Economics English Geography	 Civics and Government History Mathematics Reading / Language Arts Science 	⊠ Not Core Subject
CDE CALPADS Course Descriptors:	CTE TECH PREP COURSE INDICATORS		
(See Page 2 for Definitions)	 Tech Prep (32) (Higher Ed) Tech Prep & ROP(33) (Higher Ed) ROP (30) N/A 	CTE Introductory (01) CTE Concentrator (02) CTE Completer (03) Voc Subject N/A	 Remedial (35) Honors UC-Certified (39) Honors Non UC-Certified (34) College (40) N/A
Length of Course:	Year Semester		
Grade Level(s):	9 10 🛛 11	⊠ 12	
Credit:	 Number of credits: <u>10</u> Meets graduation requirement Request for UC "a-g" requirement g 		⊠ College Prep

Prerequisites:	0535 Intro to Engineering and 0536 Honors Principles of Engineering Recommended Geometry completed with a grade B or better 0537 Honors PLTW Computer Integrated Mfg.
Department(s):	Non-Departmental
District Sites:	UMHS
Board of Trustees COS Adoption Date:	May 9, 2017
Textbooks / Instructional Materials:	Supplemental Materials
Funding Source:	General
Board of Trustees Textbook Adoption Date:	N/A

Definitions

CALPADS	California Longitudinal Pupil Achievement Data System
CTE Technical Prep	A course within a CTE technical career pathway or program that has been articulated with a postsecondary education or through an apprenticeship program of at least 2 years following secondary instruction.
Instructional Level Code	Represents a nonstandard instructional level at which the content of a specific course is either above or below a 'standard' course instructional level. These levels may be identified by the actual level of instruction or identified by equating the course content and level of instruction with a state or nationally recognized advanced course of study, such as IB or AP.
Instructional Level Honors, UC Certified	Includes all AP courses.
Instructional Level Honors, non UC Certified	Requires Board approval.
Instructional Level College	Includes ACE courses. Equivalent to college course and content, but not an AP course. Not related to section, but to course.