

Year 3: 2020-2021	
Which PLO(s) to assess	PLO c - Understand the impact of engineering and management decisions in a global, economic, environmental, and societal context (ILO 5)
Is it aligned to an ILO?	Yes, ILO 5
Course name and number	ENGR 660 Sustainable Product and Process Design
SLO from Course	Student Learning Outcomes:
Convincingly argue the merits and strategic importance of new product design and development for attaining competitive advantage. Apply Function-means analysis techniques and Functional mapping techniques. Understand and apply Life Cycle Analysis to improve sustainability of a product's design, manufacture, operation and disposition after	

primary intended use. Utilize taught techniques and tools in a team environment to design sustainable products and processes, and to communicate design results orally and in writing.	
Assessment activity	Midterm performance on related question
Assessment instrument	Department rubric
Responsible person(s)	Prof. Bowen
Strategies on reporting (how, to who)	
Strategies on closing the loop	
Time (which semester)	

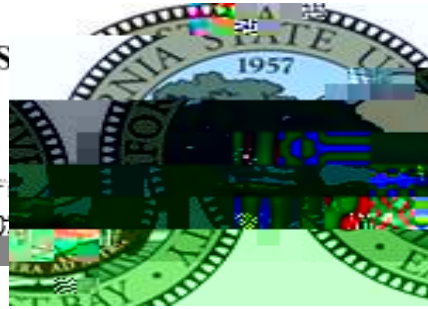
Prof. D. Bowen

PRODUCT/PROCESS DES

School of Engineering ENGR 660

California State University, Fullerton

Fall 20



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The questions below are based on the case study that can be found here:

<https://www.productevolution.org/2018/03/on-the-origin-of-the-e-bike/>

<https://www.juicedbikes.com/blogs/news/e-bike-facts-and-statistics>

15pts



3

Stop the
Bike

4

Propel

5-6

Store/Carry
Items on the
Bike

7

8

9

