Adapting Computer Aid Programs in Teaching Materials Sustainability

In recent years, sustainability has gained significant attention in higher education, government agencies, business and industry, and the general public's conscience not only in the United States but also around the world. Many disciplines and sectors are interested in developing, improving, and incorporating sustainability into elements of products, services, and solutions. As a result, there is increasing motivation to incorporate sustainability concepts into the undergraduate engineering curricula to equip students with the essential knowledge, skills, educational experience, and values to build a sustainable future. With this regard, material science has a series of core courses that lend themselves well to fascinating sustainability integration. Sustainability in material science is becoming more relevant, especially integrating material selection into the decision-making mechanism of the design process for sustainable engineering. This raises **a** more significant issue of how to incorporate sustainability teaching into material science and engineering. There is also concern about how to fit these sustainability topics into an already overburdened curriculum. Despite the availability of extra resources, incorporating sustainable engineering concepts into regular material science and engineering courses is still limited by reading materials and assignments. Here, I would like to draw material science and engineering faculty members' attention to a handy tool, SolidWorks Sustainability function, that can help them to incorporate the sustainability concepts and practices in their area courses with minimal effort. As a result, this talk focuses on SolidWorks' sustainability capabilities and how to incorporate sustainability education via CAD into an existing material science and engineering course