MINDSET + SKILLSET EDUCATION IN TANDEM

ENTREPRENEURIAL MINDSET (The 3C's)

CURIOSITY

In a world of accelerating change, today's solutions are often obsolete tomorrow. Since discoveries are made by the curious, we must empower our students to investigate a rapidly changing world with an insatiable curiosity.



Discoveries, however, are not enough. Information only yields insight when connected with other information. We must teach our students to habitually pursue knowledge and integrate it with their own discoveries to reveal innovative solutions.

+ ENGINEERING SKILLSET

OPPORTUNITY	DESIGN	IMPACT
Identify an opportunity	Determine design requirements	Communicate an engineering solution in economic terms
Investigate the market	Perform technical design	Communicate an engineering solution in terms of societal benefits
Create a preliminary business model	Analyze solutions	Validate market interest
Evaluate technical feasibility customer value societal benefits economic viability	Develop new technologies (optional)	Develop partnerships and build a team
Test concepts quickly via customer engagement	Create a model or prototype	Identify supply chains distribution methods
Assess policy and regulatory issues	Validate functions	Protect intellectual property

THESE SPECIFIC SKILLS REINFORCE THE DEVELOPMENT OF AN ENTREPRENEURIAL MINDSET

= EDUCATIONAL OUTCOMES

ENTREPRENEURIAL MINDSET	CURIOSITY DEMONSTRATE constant curiosity about our changing world EXPLORE a contrarian view of accepted solutions CONNECTIONS INTEGRATE information from many sources to gain insight ASSESS and MANAGE risk CREATING VALUE IDENTIFY unexpected opportunities to create extraordinary value PERSIST through and learn from failure
COUPLED WITH	
ENGINEERING THOUGHT AND ACTION	APPLY creative thinking to ambiguous problems APPLY systems thinking to complex problems EVALUATE technical feasibility and economic drivers EXAMINE societal and individual needs
EXPRESSED THROUGH	
COLLABORATION	FORM and WORK in teams UNDERSTAND the motivations and perspectives of others
AND	
COMMUNICATION	CONVEY engineering solutions in economic terms SUBSTANTIATE claims with data and facts
AND FOUNDED ON	
CHARACTER	IDENTIFY personal passions and a plan for professional development FULFILL commitments in a timely manner DISCERN and PURSUE ethical practices CONTRIBUTE to society as an active citizen
	DEVELOPED BY KEEN LEARN MORE AT ENGINEERINGUNLEASHED.COM



CREATING VALUE

Innovative solutions are most meaningful when they create extraordinary value for others. Therefore, students must be champions of value creation. As educators, we must train students to persistently anticipate and meet the needs of a changing world.