

Michigan Engineering Competencies

Communication: Ability to listen, reflect, and convey information effectively in a variety of media (oral, written, digital, graphical) to diverse audiences with different needs and perspectives across a variety of settings and contexts.

Creativity: Ability to create ideas, processes, products that are both novel (unique, original, atypical, cutting-edge) and appropriate (relevant, practical, useful, applicable, fitting, effective).

Empathy: Ability to take the perspective of someone else by reasoning from their premises, assumptions, or ideas in order to facilitate effective communication.

Entrepreneurial Mindset: Ability and intent to engage proactive, innovative strategies in various contexts to solve ambiguous problems.

Ethics: Fully engage stakeholders to recognize that actions have consequences, and that one must act with integrity and trustworthiness to promote the common good.

Global/Cultural Awareness: Ability to understand, practice, and articulate one's own cultural identity to better adapt to and interact with other individuals and cultures. (cultural, technical, religious, etc.)

Grit/Resilience/Persistence: Ability to persevere and maintain passion for achievement of long-term goals.

Leadership: Seeking opportunities to cultivate an environment that collectively develops a shared purpose and inspires others to work toward it.

Lifelong Learning: Ongoing desire and fundamental ability to recognize personal skills/knowledge deficits; seek out and acquire needed skills and knowledge; and explore and develop new interests, talents, and passions.

Risk Management: Ability to critically assess available information, take action despite uncertainty, manage outcomes, and learn from failure as well as from success.

Systems Thinking (Authentic Problem Solving): Ability to understand the complex structures embedded in a system while maintaining a view of the big picture problem to be solved.

Teamwork: Working to achieve a shared goal by leveraging individuals with different perspectives, roles, responsibilities, and aptitudes to overcome conflict and create community.

INSTRUCTIONS

Use the chart on the following page to connect your top learning experiences to date to the Michigan Engineering competencies listed above.

Step One: On the attached document, select your current level of proficiency by typing an “X” in the corresponding box. An explanation for each level of proficiency is included below.

Step Two: Describe in detail your reasons for your selections.

Step Three: Provide specific details on how you plan to increase your level of proficiency in each area.

Step Four: Create section in your MPortfolio called Honors Plan (or something similar) and upload this grid along with 1-2 SMART goals about your time in Honors or at Michigan. Also include your Focus Area Reflection from your post-work. You may make that work private, if desired, and share it only with honorsgsi230@umich.edu

Proficiency Scale

Exploring	Engaging	Explaining
Few prior experiences, skills or knowledge in this area	Substantial prior experiences, skills or knowledge in this area	A wide array of prior experiences, strong skills or knowledge in this area
ex. I've taken ENTR 407 or another entrepreneurial course, but I still think I've just started learning about what constitutes an "entrepreneurial mindset"	ex. I've expanded my breadth on intercultural intelligence by taking three classes on different cultures, and studying abroad, but I don't know much about many other cultures in-depth	ex. participating in MECC over the past three years has strengthened my collaboration skills to an exemplary level. I can talk about my experience with some level of expertise in a meaningful way

Michigan Engineering Competency	My Current Level of Proficiency (place an "X" in the box you select)			Why did I select this proficiency level?	What will I do to further develop in this area?
	Developing	Proficient	Exemplary		
Communication		X		I feel like there are cases when I am unable to communicate my thoughts properly, and this has caused confusion before	Talk to more people, put myself out there
Creativity		X		I feel I lack creativity in many cases and require examples to take inspiration from	Read more books, take time to write down thoughts that come as inspiration
Empathy		X		Although I sometimes have to fake it I feel I have enough EQ to be empathetic to the struggles of others	Take care to observe how others react and understand the best way to respond. Touch grass
Entrepreneurial Mindset	X			I have not really spent a lot of time thinking in this fashion but I do wish to improve it.	I got a job at the center for entrepreneurship so hopefully I can learn from the people I meet and build this mindset.
Ethics			X	I have a strong moral guideline and I take care to not stray from my ethical boundary	Learn more external opinions, read theory?
Global/Cultural Awareness			X	I am well informed about the goings of the world and feel that through my upbringings and personality I have become aware of cultural differences and take care to gap them.	Talk to people of diverse backgrounds and read more.
Grit/Resilience/Persistence			X	I know I am someone who is determined, and I have the ability to persist even if what I am doing sucks, the real issue is getting the motivation to start.	Keep challenging myself to bigger and harder tasks.

Leadership		X		I have taken a couple leadership positions in the past but I feel there is still more for me to learn	I will try and take more leadership positions in the future or ask people I feel are leaders for advice.
Lifelong Learning	X			How can someone be proficient at lifelong learning. I have goals I want to achieve and am always learning how to better achieve them	Live longer and learn
Risk Management		X		I feel because of my personality I am good at judging risk though at times I disregard what I know	Enter more risky situations?
Systems Thinking		X		I feel I am sometimes adept at keeping track of multiple scopes, but I can at times become tunnel visioned on a task and lose focus	Take time to step back and look at the bigger picture.
Teamwork		X		I am a team player through and through but working with people who diametrically oppose me can cause friction	Step out of my comfort zone and work with those I may not get along with.

(Include additional comments here, as needed.)