

Future Skills Innovation Network (FUSION) - Integrated Curriculum

Purpose

The FUSION integrated curriculum is a 10-hour online experience designed to enhance student skills development in three critical 21st century skills: communication, problem-solving, and metacognition. The curriculum is designed to accompany a variety of university on-line or in-person experiential learning (EL) opportunities, to help focus students' development of these critical skills.

Overview

Module	Content Covered	Instructional Approaches	Time
ORIENTATION	Introduces the curriculum, orienting students on vocabulary specific to the learning platform. Also provides students with a brief introduction to the skills covered by the curriculum – metacognition, communication, and problem solving.	Video (audio and animation), online interactive graphics, student self-assessment rubric on the target skills	1 hr
EXPLORE Metacognition	Provides students with a guided introduction to metacognition as a skill. Introduces the concept of metacognition as important to learning and problem-solving contexts and relates metacognition to Bloom's Taxonomy.	Multiple choice questions and quizzes, drag & drop, matching questions, video (audio and animation), self-inventory of metacognitive awareness	2 hrs
EXPLORE Communication	Presents an introduction to the purpose of communication, the elements of communication, and one specific model of communication. Explores some of the nuances of communicating in online environments as compared to in-person communication.	Multiple choice questions and quizzes, drag & drop, matching questions, video (audio and animation), self-inventory of communication skills	1 hr
EXPLORE Problem Solving	Includes an introduction to problem solving, common types of problems to solve, an overview of common problem-solving styles, and one model of problem solving.	Multiple choice questions and quizzes, drag & drop, matching questions, interactive questions regarding problem-solving style preferences, video (audio and animation), self-inventory of problem-solving skills	1 hr
APPLY	Integrates learning from the explore modules and provides students the opportunity to apply their learning by leading them through the process of 1) identifying a complex problem to solve from their specific learning context, and 2) forming a plan to solve this problem using metacognitive and communication strategies.	Brainstorming exercises, planning worksheets, short answer, expository writing, video (audio and animation)	3 hrs
REFLECT	Provides students the opportunity to reflect on their learning experiences, particularly as related to metacognition, communication, and problem solving. Students will have the opportunity to self-assess their skills, identify areas of growth, and target skills that they still wish to improve. Students will receive tips on how to communicate their skills to future employers.	Self-assessment in each of the three target skills, expository writing, video (audio and animation)	2 hrs

Assessment

The impact of the FUSION integrated curriculum will be assessed by measuring students' capacities to demonstrate, articulate, translate, and identify additional strategies to develop their skills in the three domains identified above. Instructors may include supplemental content and assessment at their discretion.