

Department of Educational Technology
Course Code & Title: EDU 4313: STEM Education

Tutorial 5: Three Approaches to Integrated STEM

Form of integration	Features
1. Disciplinary	Concepts and skills are learned separately in each discipline.
2. Multidisciplinary	Concepts and skills are learned separately in each discipline but within a common theme.
3. Interdisciplinary	Closely linked concepts and skills are learned from two or more disciplines with the aim of deepening knowledge and skills.
Transdisciplinary	Knowledge and skills learned from two or more disciplines are applied to real-world problems and projects, thus helping to shape the learning experience.

- 1. Make summary of the three STEM approaches.**
- 2. Differentiate three approaches to designing integrated STEM curriculum units.**
- 3. Which of the three approaches do you think would be most helpful for a specific purpose in you curriculum? (Keep in mind that all three approaches are helpful, but in different contexts or for different purposes.)**