

Martians In Your Classroom Book Study

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Course Credit: 1.0 graduate credits

Dates & Times: Online: June 15- 29, 2019
The student must spend a minimum of 5 hours per week online for three weeks working in the Learning Management System to complete course requirements.

LMS LINK:

<https://www.edtechteam.online/products/martian-in-our-classroom-online-book-study>

COURSE DESCRIPTION:

The first person to step foot on Mars has already been born and could be a student in your classroom! In addition, the world that students are growing up in and the world that we are preparing them for is so different than that of the past, they might as well be growing up on a different planet. Who are these Martians? How do they best learn? What knowledge and skills do they need in order to be equipped not only for jobs that haven't been invented but also for a world that ultimately, they will create? Globalization, the race to space, and technological advances such as automation, virtual reality, and augmented reality are already creating change and disrupting how we move, communicate, and experience the world around us. What do these changes mean for our learning spaces? How do educators keep up? This course will address these questions and more.

The world's biggest challenges are the biggest opportunities for students in your learning spaces, and finding answers to these challenges require educators to blur the lines between content areas and make STEM visible. Why? When we look at the world's biggest problems, most require solutions related to STEM. Currently, only a slight fraction of our population is able to solve these issues. Whether it's discovering the cure for cancer, creating algorithms and systems for transportation, detecting the next terrorist attack, or developing the technology to send humans to Mars, the answer lies in equipping those in our classrooms with the knowledge, skills, the space to create, and the inspiration to do so.

Think of the Martian Classroom as the classroom of the future, and your role is to equip students to thrive on or off the planet. Get ready to launch!

STUDENT LEARNING OUTCOMES:

Upon completion of this course, the student will be able to:

1. Identify the unique needs of today's youth and best practices for teaching Martians.
2. Create authentic learning experiences that blur the lines between content areas and illuminates STEM connections.
3. Connect space exploration to their content area.
4. Reflect on the importance of developing individualized approaches to education that allows for student voice and student choice.
5. Utilize strategies to prepare Martians for the projected changes in the world around us: the ability to adapt, innovate, communicate, navigate the digital world, and find ways to be more human.

TEXTS, READINGS, INSTRUCTIONAL RESOURCES:

Required Text:

- Mann, Rachael, and Stephen Sandford. *The Martians in Your Classroom: STEM in Every Learning Space*. EdTech Team, 2018.

COURSE REQUIREMENTS:

In order to receive a Passing grade, the participant must complete the following course requirements:

1. Complete Learning Matrix: For each topic, students must insert an artifact from their learning, including but not limited to screenshots of work samples, written reflections, and contributions to collaborative resources.

2. Final Project: Participants will curate a Wakelet collection of artifacts to demonstrate learning.

GRADE DISTRIBUTION AND SCALE:

Grade Distribution:

Learning Matrix 60%
 Final Project 40%

Grade Scale:

90-100% A
 80-89% B
 70% and below F

GRADING RUBRICS:

Learning Matrix:

	Learning Matrix Activities	Learning Matrix Reflections
Exceeds Expectations (90-100%)	Activities are thoughtful and complete. All expectations for each section are met or exceeded.	Reflection shows a thorough thoughtfulness of the project and its implications in the classroom. Explains thinking and learning process and implementations for future learning. Extensive evidence of personal growth through this course.
Meets Expectations (80-89%)	Activities are complete. All expectations for each section are met.	Reflection is thoughtful and describes the project and its implications in the classroom. Explains thinking and learning process and might include implementations for future learning. Evidence of personal growth through this course.
Does Not Meet Expectations (60-79%)	Activities are not fully complete.	Reflection describes the project but might not include its implications in the classroom. Little evidence of personal growth through this course.
Incomplete	No evidence of activities	No evidence of reflection

(under 59%)	completed.	
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Final Project:

	Wakelet Collection	Wakelet Content
Exceeds Expectations (90-100%)	The collection is highly detailed, goes above and beyond to create a professional appearance with mesmerizing cover and background photos, the collection title is catchy and memorable, and the collection description is well-written, and thorough.	The content selection includes an extensive variety of meaningful content and bookmarks, including a broad mix of the following: Images, YouTube videos, Google Maps, Tweets, Instagram posts, Facebook posts, playlists, SoundCloud tracks/podcasts, slideshows, GIF's, URL's, etc.
Meets Expectations (80-89%)	The collection is detailed, has a professional appearance with a cover and a background photo, it is titled, and has a description.	The content selection includes a variety of meaningful content and bookmarks, including a mix of the following: Images, YouTube videos, Google Maps, Tweets, Instagram posts, Facebook posts, playlists, SoundCloud tracks/podcasts, slideshows, GIF's, URL's etc.
Does Not Meet Expectations (60-79%)	The collection is lacking in one or more area.	The content selection has some content related to the course.
Incomplete (under 59%)	No evidence of a completed Wakelet collection.	No evidence of content added to a Wakelet collection.

COURSE SCHEDULE:

Course Date or Session

Topics and Assignments

Week 1

Module 1: Course Introduction
Launchpad Activities, Teaching Martians
Module 2:

Week 2

Module 3: Blurring the Lines: STEM in Every
Learning Space
Module 4: Connecting Space Exploration to
Every Learning Space
Module 5: Innovation and Inquiry

Week 3

Module 6: Voice and Choice in the Martian
Classroom
Module 7: Skills for the Future
Module 8: Final Project