Course Objectives, Student Learning Outcomes, and Promotion Requirements

Interpretation of Achievement Scale Introduction to STEM Levels 3-6

This course is designed to build foundational core competencies required of academic and professional STEM (Science, Technology, Engineering, Math) environments. Introduction to STEM English focuses on improving listening, speaking, reading, and writing skills required of STEM related coursework and fieldwork at an intermediate level. Students will practice using the following STEM specific skills: vocabulary development, textual analysis, numerical analysis, written analysis, making predictions, grammatical structures, intonation, and pronunciation.

By the end of Introduction to STEM, students will be able to:

- Communicate numerical information effectively in oral and written form
- Identify facts and opinions in oral and written form
- Utilize STEM terminology effectively in oral and written form
- Make predictions in oral and written form
- Use adverbs of frequency in oral and written form
- Use modals of possibility in oral and written form
- Use modals of necessity in oral and written form
- Use quantifiers in oral and written form

Course Evaluation

Projects/Presentations (1)	20%
Written Assignments (2)	30%
Quizzes (3)	30%
Comprehensive Final Exam	20%

Introduction to STEM Objectives:

1. Improve comprehension, vocabulary, grammar, and interactive listening skills with regard to STEM:

    1.1. Listen for main ideas and supporting details
    1.2. Record numerical information accurately
    1.3. Understand STEM based texts
    1.4. Identify facts and opinions
    1.5. Identify STEM specific vocabulary
    1.6. Recognize modals of possibility and necessity
    1.7. Draw conclusions
    1.8. Use simple past
    1.9. Use present perfect
    1.10 Use past progressive
    1.11 Use modals of possibility
    1.12 Use modals of necessity
    1.13 Use adverbs of frequency
    1.14 Use quantifiers

2. Develop students' abilities in oral communication skills:

2.1. Use appropriate discourse markers and connectors
2.2. Describe numerical data
2.3. Form basic and complex grammatical structures related to research and STEM
2.4. Make predictions
2.5. Identify and respond to cause and effect relationships
2.6. Identify and respond to compare and contrast relationships
2.7. Ask for clarification
2.8. Summarize
2.9. Emphasize keywords and STEM specific vocabulary
2.10 Vary speech flow and intonation to emphasize a point
2.11 Utilize transition markers

Introduction to STEM Student Learning Outcomes to Formally Assess:

Students will be able to:

- Communicate numerical information effectively in oral and written form
- Identify facts and opinions in oral and written form
- Utilize STEM terminology effectively in oral and written form
- Make predictions in oral and written form
- Use adverbs of frequency in oral and written form
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Grading Scale

SATISFACTORY S 71 - 100	UNSATISFACTORY U 0 -70
The student demonstrates level-appropriate English ability that is generally accurate and is characterized by competence in the SLOs listed above.	The student does not demonstrate level-appropriate English ability and is incompetent in the SLOs listed above.

Introduction to STEM Requirements Passing

1. Students must pass the class with a cumulative grade of C- (71%) or better.