



Course Objectives, Student Learning Outcomes, and Promotion Requirements

Interpretation of Achievement Scale English for STEM Levels 7 and up

This course is designed to build core competencies required of academic and professional STEM (Science, Technology, Engineering, Math) environments. STEM English focuses heavily on improving listening, speaking, reading, and writing skills required of STEM related coursework and fieldwork. 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 English for STEM, students will be able to:

- Describe graphs, charts, and diagrams in oral and written form
- Recognize and report key findings in STEM based texts in oral and written form
- Utilize STEM terminology effectively in oral and written form
- Communicate numerical information effectively in oral and written form
- Analyze research written at a B1+ level and draw conclusions in oral and written form
- Paraphrase textual information written at a B1+ level in oral and written form
- Ask for clarification

Course Evaluation

Projects/Presentations (2)	50%
Quizzes (3)	30%
Comprehensive Final Exam	20%

English for 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 and deconstruct texts in the area of STEM
 - 1.4. Identify scientific claims and evidence
 - 1.5. Listen for STEM specific terminology
 - 1.6. Recognize subjective and objective findings in research
 - 1.7. Draw conclusions

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. Describe the scientific process
 - 2.7. Ask for clarification
 - 2.8. Summarize, paraphrase, and hypothesize
 - 2.9. Emphasize keywords and STEM specific vocabulary
 - 2.10 Vary speech flow and intonation to emphasize a point
 - 2.11 Utilize transition markers



English for STEM Student Learning Outcomes to Formally Assess:

Students will be able to:

- Describe graphs, charts, and diagrams in oral and written form
- Recognize and report key findings in STEM based texts in oral and written form
- Utilize STEM terminology effectively in oral and written form
- Communicate numerical information effectively in oral and written form
- Analyze research written at a B1+ level and draw conclusions 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.

English for STEM Requirements Passing

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