

ESL PATHWAY STEM CERTIFICATE OF ACHIEVEMENT



The ESL Pathway Certificate program is designed to prepare English Language Learners (ELLs) for the academic rigor of degree-applicable coursework in the STEM Academic and Career Pathway. Students completing these certificates have achieved academic English reading and writing skills at an advanced, post-secondary level; they have also achieved success in prerequisite or introductory coursework in a variety of degree, certificate, or general education patterns. These two elements combine to demonstrate significant achievement of a milestone along their pathways to degrees, certificates, or transfer. To earn a certificate, complete the required courses as listed with a grade of C or better.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate well-organized information, arguments and opinions through various modalities, including speaking and writing.
2. Analyze and evaluate academic texts to prepare for and complete academic writing.
3. Interact effectively with others in group work to complete academic tasks and work well in cross-cultural situations, taking into account others' diverse backgrounds, perspectives, and abilities.

Certificate of Achievement Requirements

Code	Title	Units
ESL-2	Accelerated Composition for English as a Second Language	6
ESL-122	College Rhetoric	6
Select four to five (4-5) units from the following:		4-5
ASTR-110 & ASTR-112	Descriptive Astronomy and General Astronomy Laboratory ¹	
BIO-130 & BIO-131	General Biology I and General Biology I Laboratory ²	
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology	
BIO-240	Principles of Ecology, Evolution and Organismal Biology	
CHEM-120	Preparation for General Chemistry	
MATH-180	Analytic Geometry and Calculus I	
PHYC-130	Fundamentals of Physics	
PHYC-201	Mechanics and Waves	
Select three to four (3-4) units from the following:		3-4
COMM-C1000	Introduction to Public Speaking	
COMM-120	Interpersonal Communication	
MATH-120	Quantitative Reasoning	
PHIL-125	Critical Thinking and Philosophical Composition	

STAT-C1000 Introduction to Statistics

Total Units

19-21

¹ Required laboratory for ASTR-110 Descriptive Astronomy is ASTR-112 General Astronomy Laboratory

² Required laboratory for BIO-130 General Biology I is BIO-131 General Biology I Laboratory

Certificate of Achievement

Students who complete the major requirements above qualify for a Certificate of Achievement. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.