

**Lewis & Clark Graduate School of Education and Counseling Master of Arts in Teaching: Secondary
Content Knowledge Essay: SCIENCE (Biology, Chemistry, Integrated Science, Physics)**

Applicant's name: _____ Major(s) and Degrees(s): _____

A degree in science from an accredited institution is accepted as evidence for sufficient foundational knowledge in your discipline for admission into our MAT science program. Applicants with a degree in a related field need to provide additional information to ensure that sufficient foundation knowledge has been attained. In either case, our MAT program will build on and enhance the content knowledge you bring to the classroom.

The Content Knowledge Essay is required of ALL science applicants with or without a degree in science.

Below is a list of science content areas and select disciplinary domains.

1. Rate your level of experience on a scale of 1-5 (1 = little or no experience and 5 = highly experienced.)
2. Indicate under the "Evidence" column where and how you received this experience (coursework, employment, personal research). For all coursework, please list the course (i.e., Biology 101). Feel free to attach additional sheets if necessary or recreate this document in order to type your responses.

ALL APPLICANTS

Content Area	Rating	Evidence
Knowledge of the nature of science		
Knowledge of the process of scientific inquiry		

BIOLOGY APPLICANTS

Content Area	Rating	Evidence
Ecology and Biodiversity		
Genetics and evolution		
Biochemistry and cell biology		
Anatomy and Physiology		
Botany and/or Zoology		

CHEMISTRY APPLICANTS

Content Area	Rating	Evidence
Chemical reactions/energy/bonding		
Stoichiometry and solutions		
Matter and atomic structure		
Organic chemistry/Biochemistry		

INTEGRATED SCIENCE APPLICANTS

Content Area	Rating	Evidence
Physical science (physics/astronomy and chemistry)		
Life science (biology and ecology)		
Earth/space science (geology, meteorology, oceanography)		

PHYSICS APPLICANTS

Content Area	Rating	Evidence
General physics		
Mechanics		
Electricity and magnetism		
Astronomy		
Thermodynamics		

Please submit this form through the online application process. Questions: gseadmit@lclark.edu

Sept 2019