

**Master of Science in Biology with
TMATE Certification**
Advisor: Dr. Allan Nelson (nelson@tarleton.edu)

Designed For

The Master of Science in Biology with TMATE certification is intended to enrich and enhance education in biological sciences in order to prepare students for leadership roles in educational and research-oriented careers.

Your Future

The TMATE program is a year-long graduate program for highly motivated people with a bachelor's degree who want to become certified school teachers. Pursuing a MS in Biology will enable one to teach dual credit courses as well as teach at the community college level.

The Program

The 18 hour TMATE program includes a combination of online and hybrid coursework. The master's level biology courses are face-to-face and several require outdoor classes.

Credit	Subject Course	Course Title
3	EDUC 5311	Methods of Effective Teaching
3	EDUC 5314	Creating & Managing the Learning Environment
3	READ 5370	Literacy Development
3	EDUC 5390	Selected Topics in Education (I)
3	EDUC 5390	Selected Topics in Education (II)
3	EDUC 5315	Practicum in Clinical Teaching

Additional Coursework to Complete MS in Biology:

Credit	Subject Course	Course Title
3	BIOL 5302	Ecological Plant Physiology
3	BIOL 5320	Environmental and Restoration Biology
3	BIOL 5330	Development of Modern Biological Concepts
3	BIOL 5331	Conservation Biology
3	BIOL 5361	Evolutionary Biology
3	BIOL 5398	Research Design and Analysis
1	BIOL 5185	Seminar (1)-Discussion of a current biological topic
1	BIOL 5185	Seminar (2)-Discussion of a current biological topic
1	BIOL 5186	Biological Problem-Independent research of a topic