

# Graduate Certificate in Biological Sciences

This certificate program will provide students with graduate level training in biological sciences without the requirement for a thesis or dissertation. The graduate level courses in biological sciences increase their knowledge of biology and related fields, strengthen their skills in problem-solving, literature review, and written and oral presentations. These skills will increase their job prospects and make them more competitive for graduate degree programs.

## Admission Requirements

- A minimum of 12 hours of upper-division undergraduate coursework in biological sciences or a closely related discipline
- A minimum undergraduate GPA of 3.0
- Minimal internet TOEFL of 79 if applicable

The GRE (Graduate Record Examination) is optional.

Applicants will supply the Departmental Admissions Committee with academic transcripts, resume or curriculum vitae, one letter of recommendation, General Graduate Record Exam (GRE) scores, and TOEFL scores (if applicable).

The Graduate Certificate in Biological Sciences is an 18 credit hour program. Students must select a minimum of nine credits of the formal graduate lecture courses offered by the Department of Biological Sciences. The remaining nine credit hours may consist of additional biological sciences graduate level lecture courses, graduate research credits in biology, or a combination thereof. Students are encouraged to attend a Graduate Seminar in Biological Sciences or Ecology and Evolutionary Biology, although only one credit hour of Seminar (BIOL 5130) may count toward the Graduate Certificate in Biological Sciences. Only A and B grades in the biology graduate courses are considered passing grades. Biological Sciences Graduate Certificate students must maintain an overall GPA of 3.0 or higher.

## Degree Plan

Code	Title	Hours
<b>Prescribed Electives</b>		
Select eighteen hours from the following:		18
BIOL 5102	Independent Research	
BIOL 5131	Ethical, Soc/Pol Dimensions	
BIOL 5202	Independent Research	
BIOL 5208	Prof Skills Devel Eco Evo	
BIOL 5209	Rsrch Proposals in Eco Evo	
BIOL 5301	Select Adv Topics Biol Science	
BIOL 5302	Resrch Biological Science (up to 9 hours can apply)	
BIOL 5305	Herpetology	
BIOL 5308	Rsrch Funding & Prof Developmt	
BIOL 5311	Neurobiology of Brain Diseases	
BIOL 5313	Biogeography	
BIOL 5316	Biosystematics	
BIOL 5320	Endocrinology	
BIOL 5322	Advances/Evolutionary Theory	
BIOL 5326	Advances Immunological Concept	
BIOL 5327	Advances in Ecological Theory	
BIOL 5328	Biostatistics	
BIOL 5329	Physiology of Bacterial Cell	
BIOL 5330	Cancer Biology	
BIOL 5331	Advances in Eco/Evo Theory	
BIOL 5340	Structure/Funct Macromolecules	
BIOL 5344	Molecular Pathogenesis	
BIOL 5351	Intro Bio I: Basic Seq. Comp.	
BIOL 5352	Intro Bio II: Gene Find/Compar	
BIOL 5360	Aquatic Ecology	
BIOL 5502	Resrch in Biological Sciences	
<b>Total Hours</b>		<b>18</b>