BIOLOGY - M.A.

Description
The Master of Arts degree in Biology is for students wishing to gain additional knowledge in any area of the biological sciences and are not looking towards a career in biological research. This non-thesis program complements secondary school science teachers, students looking for additional background or preparation for professional school programs such as in medicine or dentistry, and those seeking employment in life science industries in a non-research capacity.

FULLY OFFERED AT:
- Kent Campus

Admission Requirements
- Bachelor’s degree from an accredited college or university for unconditional admission
- Minimum 3.00 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education’s admission website.

Program Learning Outcomes
Graduates of this program will be able to:
1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree and to increase the depth of their knowledge through coursework and hands-on experiences.
2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of the student’s area of expertise.

4. Develop the necessary laboratory skills that will allow testing of hypotheses.

Program Requirements
Major Requirements
[MA-BSCI]

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<td>Courses selected in consultation with academic faculty advisor</td>
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Students interested in cell-/molecular-/biomedical-/biotechnology-related areas are encouraged to choose from the following:

- BSCI 50158 MOLECULAR BIOLOGY
- BSCI 50142 BIOENERGETICS
- BSCI 50143 & BSCI 60144 EUKARYOTIC CELL BIOLOGY and SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY
- BSCI 50174 IMMUNOLOGY
- BSCI 50432 ENDOCRINOLOGY
- BSCI 50433 MAMMALIAN PHYSIOLOGY I
- BSCI 50434 MAMMALIAN PHYSIOLOGY II

Students interested in ecology are encouraged to choose from the following:

- BSCI 50163 EVOLUTION
- BSCI 50363 MICROBIAL ECOLOGY
- BSCI 50364 LIMNOLOGY
- BSCI 50368 WETLAND ECOLOGY AND MANAGEMENT
- BSCI 50374 CONSERVATION BIOLOGY
- BSCI 50556 VERTEBRATE ZOOLOGY
- BSCI 50371 EVOLUTIONARY BIOLOGY

Teachers holding or pursuing K-12 licensure are encouraged to choose from the following:

- BSCI 50163 EVOLUTION
- BSCI 50363 MICROBIAL ECOLOGY
- BSCI 50364 LIMNOLOGY
- BSCI 50368 WETLAND ECOLOGY AND MANAGEMENT
- BSCI 50374 CONSERVATION BIOLOGY
- BSCI 50556 VERTEBRATE ZOOLOGY
- BSCI 50371 EVOLUTIONARY BIOLOGY

Minimum Total Credit Hours: 32

Graduation Requirements
Teachers holding or pursuing K-12 licensure must complete a minimum of 18 credit hours of biological sciences courses toward the degree. Students holding a bachelor’s degree without K-12 licensure must complete a minimum of 23 hours of biological science courses toward the degree.

BSCI 50104 may not be used to fulfill degree requirements. Maximum 4 credit hours may be earned through workshops in the sciences and science education.

The Department of Biological Sciences frequently offers special topics classes in specialized areas of interest, which can count towards the degree when part of the approved program of study. Coursework in other fields within the natural and physical sciences may be used to meet credit hour requirements when part of the approved program of study.