

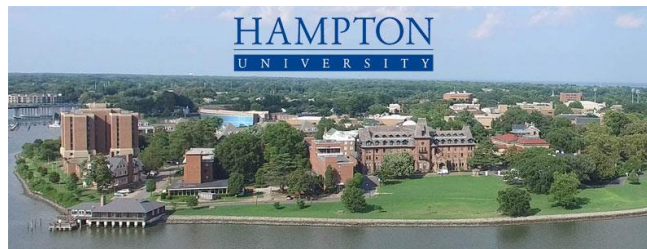
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Dr. Isi Ero-Tolliver
Dean
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<https://science.hamptonu.edu/>

HAMPTON
UNIVERSITY

*Master of Science in
Biology (M.S.)*



Biomedical Research



Organismal/ Environmental Research

School of Science

Program Description

The graduate program in Biological Sciences offers the Master of Science (M.S.) degree in biology with or without an environmental science concentration.

The major objective of the program is to offer advanced training in Biological Sciences for students who plan to become research scientists. Areas of research are fortified by the expertise of faculty:

Biomedical Research: cancer biology; biomaterial science; plant genomics; zebrafish development; round-worm metabolism; nanoparticle toxicity; epidemiology; protein structure/function

Organismal/ Environmental Research: fisheries biology; geographic information science/ remote sensing; oyster restoration; wetland ecology; marine mammal genetics; eco-physiology; microbiology; entomology; ecological modeling

Funding for students is available on a competitive basis. Students applying to the Environmental concentration should inquire about the NOAA LMRCSC program, which may provide funding for eligible students conducting environmental research in fields relevant to NOAA science.

How to apply:

Our program provides a research intensive experience, so we recommend students to identify a mentor prior to applying. For mentor information, please see the list of faculty in the School of Science website:

<https://science.hamptonu.edu/>

Application information and admission requirements can be found here:

<https://gradcoll.hamptonu.edu/>

The **Master's in Biology curriculum** was designed to allow for flexibility so students can explore key areas of research in Biological Sciences. While taking these courses, students are required to assemble an advisory committee for completion of a mentored research experience, culminating in a successful completion of written and oral thesis defense.

First year	Fall	Spring
BIO 505 Research Problems	3	-
STA 600 Statistics	3	-
BIO 650 Research Topics	-	3
Biology Elective I (500-level)	3	3
Biology Elective I (600-level)	-	3
TOTAL CREDITS – 1ST YEAR	9	9
Second year	Fall	Spring
Biology Elective II (500-level)	3	2
Biology Elective III (600-level)	3	3
Biology Elective IV (600-level)	3	
BIO 681 Thesis		4
Written thesis		X
Oral thesis defense		X
TOTAL CREDITS – 2ND YEAR	9	9
TOTAL CREDITS: 36		

The **Environmental Science concentration** is administered through the Department of Biological Sciences in collaboration with the Marine and Environmental Science Department. Courses in this interdisciplinary program were selected to enhance career development of participants.

First year	Fall	Spring
BIO 619 Marine Ecology	3	-
STA 600 Statistics	3	-
BIO 650 Research Topics	3	-
CHE 509 Environmental Chemistry	-	3
Biology Elective I (500-level)	-	3
MES 510 Environmental Toxicology	-	3
TOTAL CREDITS – 1ST YEAR	9	9
Second year	Fall	Spring
Biology Elective I (600-level)	3	
Biology Elective II (600-level)	3	
Biology Elective III (600-level)	3	
MES 616 Research Problems I		2
MES 617 Research Problems II		3
BIO 681 Thesis		4
Written thesis		X
Oral thesis defense		X
TOTAL CREDITS – 2ND YEAR	9	9
TOTAL CREDITS: 36		