

**Master of Science (MS)**  
**Biological Sciences Program Option**  
**Health Sciences Concentration: 0641**  
**2025-2026**

The Master of Science: Biological Sciences - Health Sciences Concentration is delivered in a fully on-ground format. This 30-hour program has an estimated residential tuition and fees cost of \$10,000 ([www.ecok.edu/bursar](http://www.ecok.edu/bursar)).

This concentration is designed to strengthen the scientific portfolio and provide specialized preparation for those individuals seeking careers in the health industry, water science, ecology, or the natural sciences. The curriculum will strengthen student understanding of biology and increase competitiveness in their career of choice.

Legend placed after course rotations

<b>I. <u>Required Courses (6 Hours)</u></b>			<b><u>FA</u></b>	<b><u>SP</u></b>	<b><u>SU</u></b>
_____	BIOL	5013 Experimental Design/Data Analysis	L	--	--
_____	BIOL	5223 Grant/Science Writing & Communication	--	L	--
<b>II. <u>Required Track Courses (9-12 Hours)</u></b>			<b><u>FA</u></b>	<b><u>SP</u></b>	<b><u>SU</u></b>
<u>Thesis Track (12 Hours)</u>					
_____	BIOL	5691-3Thesis (6hrs)	T	T	T
_____	BIOL	5713 Teaching the Sciences	L	L	--
_____	BIOL	5773 Graduate Examination: Oral	T	T	T
<b>OR</b>					
<u>Non-Thesis Track (9 Hours)</u>					
_____	BIOL	5803 Report	T	T	T
_____	BIOL	5813 Field Work in the Sciences	L	L	--
_____	BIOL	5873 Graduate Examination: Written	T	T	T
<b>III. <u>Elective Courses (12-15 Hours: Four to Five of the Following)</u></b>			<b><u>FA</u></b>	<b><u>SP</u></b>	<b><u>SU</u></b>
_____	BIOL	5133 Special Topics in Evolution	E	--	--
_____	BIOL	5245 Advanced Comparative Vertebrate Anatomy	--	E	--
_____	BIOL	5254 Special Topics in Entomology	--	E	--
_____	BIOL	5313 Advanced Cell & Molecular Biology	L	--	--
_____	BIOL	5405 Advanced Techniques in Biotechnology	--	O	--
_____	BIOL	5424 Advanced Ethnobotany	--	E	--
_____	BIOL	5433 Human Genetics	--	L	--
_____	BIOL	5545 Advanced Molecular Biology	--	E	--
_____	BIOL	5554 Genomics & Bioinformatics	--	O	--
_____	BIOL	5563 Pathogenic Microbiology	E	--	--
_____	BIOL	5623 Medical Biochemistry	O	--	--
_____	BIOL	5654 Histopathology	L	--	--
_____	BIOL	5683 Advanced Immunology	--	L	--
_____	BIOL	5703 Advanced Biostatistics	L	--	--
_____	BIOL	5981-4Seminar in Biology	T	T	T
_____	GIS	5613 Digital Mapping	E	--	--
_____	GIS	5913 Spatial Analysis	--	E	--

### Legend

<b>FA:</b> Fall	<b>SP:</b> Spring	<b>SU:</b> Summer	<b>--:</b> Not Offered
<b>A:</b> 1 <sup>st</sup> 8-Weeks (WEB)	<b>B:</b> 2 <sup>nd</sup> 8-Weeks (WEB)	<b>F:</b> Full Sem (WEB)	<b>BL:</b> Blended
<b>L:</b> Live (Face-to-Face)	<b>T:</b> To Be Determined	<b>Y:</b> Synchronous Web	<b>E:</b> Offered Even Years
<b>O:</b> Offered Odd Years	<b>V:</b> Various Formats (Half-Day, Full-Day, Weekends, Nights, etc.)		

*Course Offerings are subject to change, and are not necessarily in sequential order*

#### **IV. Enrollment, Overload, and Full-Time Equivalents**

##### Fall/Spring

- Full-time is nine (9) hours per 16-week semester
- Financial aid requires five (5) hours per 16-week semester
- Graduate Dean approval is required for thirteen (13) hours per 16-week semester

##### Summer

- Full-time is six (6) hours per 8-week semester
- Financial aid requires five (5) hours per 8-week semester
- Graduate Dean approval is required for eleven (11) hours per 8-week semester

#### **V. Graduation and Commencement**

Students should apply for graduation just after they have enrolled for their last semester. This triggers a Degree Audit, which will inform the student of any course changes, course additions, or course substitutions required for graduation.

- Fall Graduates will **ONLY** be allowed to walk at December Commencement
- Spring and Summer Graduates will **ONLY** be allowed to walk at May Commencement

#### **VI. Financial Aid Regulations for Graduate Students**

Students, please be advised that the courses you choose to enroll in **MUST** be a required course or an elective course in your degree program. Financial Aid regulations dictate that any graduate student who is seeking financial aid must be enrolled in **AT LEAST** five (5) credit hours during the fall, spring, or summer semester and the courses **MUST** be in the degree program.

- Certificate Programs **DO NOT** qualify for financial aid.
- For questions contact the Office of Financial Aid: 580-559-5638 or [financialaid@ecok.edu](mailto:financialaid@ecok.edu)