

Master of Science (MS)
Biological Sciences - Health Sciences Option: 0641
2026-2027

The Master of Science: Biological Sciences - Health Sciences Option (www.ecok.edu/healthsci) is delivered in a fully on-ground format. This 30-hour program option has an estimated residential tuition and fees cost of \$10,300 (www.ecok.edu/bursar).

The Health Sciences Option is designed to strengthen the scientific portfolio and provide specialized preparation for those individuals seeking careers in the health sciences or the biotech industry. The curriculum will strengthen student understanding of biology and increase competitiveness in their career of choice. Thesis and non-thesis options are also available in this concentration further optimizing student preparedness towards active researching (thesis) or professional school specializations.

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Legend placed after course rotations

I. <u>Required Courses (6 Hours)</u>				<u>FA</u>	<u>SP</u>	<u>SU</u>
_____	BIOL	5013	Experimental Design/Data Analysis	L	--	--
_____	BIOL	5223	Grant/Science Writing & Communication	--	L	--
II. <u>Required Track Courses (9 Hours)</u>				<u>FA</u>	<u>SP</u>	<u>SU</u>
_____	BIOL	5693	Thesis	T	T	T
_____	BIOL	5713	Teaching the Sciences	L	L	--
_____	BIOL	5773	Graduate Examination	T	T	T
III. <u>Elective Courses (15 Hours: Five of the Following)</u>				<u>FA</u>	<u>SP</u>	<u>SU</u>
_____	BIOL	5021-3	Thesis II	T	T	T
			<i>*Thesis-Track Student Only</i>			
_____	BIOL	5133	Special Topics in Evolution	E	--	--
_____	BIOL	5245	Advanced Comparative Vertebrate Anatomy	--	E	--
_____	BIOL	5254	Special Topics in Medical Entomology	--	E	--
_____	BIOL	5323	Advanced Cell & Molecular Biology	L	--	--
_____	BIOL	5405	Advanced Techniques in Biotech	--	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	5981-4	Seminar in Biology	--	--	--
_____	BIOL	5991-4	Individual Study in Biology	--	--	--
_____	GIS	5613	Digital Mapping	E	--	--
_____	GIS	5913	Spatial Analysis	--	E	--

Legend

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

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

IV. Graduation Plan Options

First Semester - Meet w/Advisor to Finalize Program of Study

Fall (1): BIOL 5013, Elective, Elective

Graduate students are encouraged to review the [BES Master's Student Handbook](#) for department specific policies, thesis versus non-thesis track options, and student expectations.

V. Enrollment, Overload, and Full-Time Equivalents

Fall/Spring

- Academic full-time is nine (9) hours per 16-week semester
- Full financial aid requires nine (9) hours per 16-week semester
- Graduate Dean approval is required for thirteen (13) hours per 16-week semester

Summer

- Academic full-time is six (6) hours per 8-week semester
- Full financial aid requires nine (9) hours per 8-week summer semester
- Graduate Dean approval is required for eleven (11) hours per 8-week semester

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. Graduate students seeking financial aid must be enrolled in at least nine (9) credit hours to receive full financial aid. Graduate students enrolled in fewer than nine (9) hours will have their financial aid prorated appropriately.

- Certificates and Non-Degree Pathways do not qualify for financial aid.
- For questions contact the Office of Financial Aid: 580-559-5243 or financialaid@ecok.edu.

VII. 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.

Commencement/Graduation is held twice a year (December and May):

- Completing Degree in Fall: Will Participate in December Ceremony
- Completing Degree in Spring: Will Participate in May Ceremony
- Completing Degree in Summer: Option to Participate in May or December Ceremony