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

The Master of Science: Biological Sciences - Health Sciences Option (www.ecok.edu/gradstudies) is delivered in a blended 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.

Program Coordinator: Alisha Howard, PhD, ahoward@ecok.edu, (580) 559-5792

Legend placed after course rotations

I. Required Courses (6 Hours)			**FA**	**SP**	**SU**
_____ BIOL	5013	Experimental Design/Data Analysis	L	--	--
_____ BIOL	5223	Grant/Science Writing & Communication	--	L	--

II. Required Track Courses (9 Hours)			**FA**	**SP**	**SU**
_____ BIOL	5693	Thesis	T	T	T
_____ BIOL	5713	Teaching the Sciences	L	L	--
_____ BIOL	5773	Graduate Examination	T	T	T

III. Elective Courses (15 Hours: Five of the Following)			**FA**	**SP**	**SU**
_____ BIOL	5021-3	Thesis II	T	T	T
		Thesis-Track Student Only			
_____ 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: 1st 8-Weeks (WEB)	**B:** 2nd 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