

Program Learning Outcomes Knowledge, skill, or behavior students can demonstrate upon program completion		Courses Mapped to Outcomes										
		BIOL 370 Anim Behav	BIOL 374 Bio Insect	BIOL 380 Field Stud	BIOL 421 Evo Bio	BIOL 422 Invert Zoo	BIOL 432 Vert Zoo	BIOL 442 Anim Phys	BIOL 490 Independent Research	BIOL 495 Capstone	Biology Seminar Series	Cognate courses in CHEM, PHYS, GES
1	Students will demonstrate knowledge across broad biological topics	R	R	R	R	R	R	R	R		R	
2	Students will demonstrate knowledge about the cellular level of biological organization				R	R						
3	Students will demonstrate knowledge about the molecular and genetic levels of biological organization				M			R				
4	Students will demonstrate knowledge about the organismal level of biological organization	M		R	M	R	M	M				
5	Students will demonstrate knowledge about the ecological and evolutionary levels of biological organization	M		M	M		M	R				
6	Students will express confidence in their abilities to engage in scientific inquiry	R	R	R	R	R	R	R	M		R	
7	Students will convey readiness for the next steps in their career trajectories								R	M	R	

Program Learning Outcomes: Assessment Tools

Program Name: Biology (B.A.)

Date: 8-20-20, rev. 9-3-24

Program Learning Outcomes Knowledge, skill, or behavior students can demonstrate upon program completion	Measurement Tool	Timeline/Frequency of Assessment	Target	Review
1 Students will demonstrate knowledge across broad biological topics	Overall scaled scores on Major Field Test in Biology (MFT-B)	Students take MFT during their senior year. Results will be compiled from MFT website	Hope cohort will score at or above the national average as identified by ETS.	Results (scores) reviewed every three years by faculty during department meeting in fall semester
2 Students will demonstrate knowledge about the cellular level of biological organization	Cell Biology subscore on MFT-B	Students take MFT during their senior year. Results will be compiled from MFT website	Hope cohort will score at or above the national average as identified by ETS.	Results (scores) reviewed every three years by faculty during department meeting in fall semester
3 Students will demonstrate knowledge about the molecular and genetic levels of biological organization	Molecular Biology and Genetics subscore on MFT-B	Students take MFT during their senior year. Results will be compiled from MFT website	Hope cohort will score at or above the national average as identified by ETS.	Results (scores) reviewed every three years by faculty during department meeting in fall semester
4 Students will demonstrate knowledge about the organismal level of biological organization	Organismal subscore on MFT-B	Students take MFT during their senior year. Results will be compiled from MFT website	Hope cohort will score at or above the national average as identified by ETS.	Results (scores) reviewed every three years by faculty during department meeting in fall semester
5 Students will demonstrate knowledge about the ecological and evolutionary levels of biological organization	Population Biology, Evolution, and Ecology subscore on MFT-B	Students take MFT during their senior year. Results will be compiled from MFT website	Hope cohort will score at or above the national average as identified by ETS.	Results (scores) reviewed every three years by faculty during department meeting in fall semester

6	Students will express confidence in their abilities to engage in scientific inquiry	National Survey of Student Engagement (NSSE) items: a. Thinking critically and analytically b. Analyzing numerical and statistical information	Students complete NSSE survey during freshman and senior years. Results will be requested from Frost Center	Cohort average of 3.50 on 4-point scale	Results (scores) reviewed every three years by faculty during department meeting in fall semester
7	Students will convey readiness for the next steps in their career trajectories	Biology Department graduate survey items: a. "I am well prepared for a future in biology." b. "I received good advice about careers from at least one faculty member." c. "I received help from at least one faculty member with employment or graduate/professional school information/applications."	Students complete biology department graduate survey during senior year. Results will be compiled from Qualtrics	Cohort average of 3.25 on 4-point scale	Results (scores) reviewed every three years by faculty during department meeting in fall semester