

Student Learning Objectives	Core Competency
Demonstrate a broad knowledge of central concepts in the relevant scientific field.	<i>Professional Knowledge & Skills</i>
Demonstrate advanced knowledge to one specialized area.	
Identify gaps in scientific knowledge and formulate hypothesis based on current concepts in the field.	
Design, conduct and interpret their own research	
Collect and store data in accordance with good lab practices.	
Interpret and critique scientific literature	
Apply fundamental knowledge of ethics in research	<i>Professional Identity and Ethical Behavior</i>
Interpret and critique scientific literature	<i>Information Literacy</i>
Effectively communicate in written and verbal form to both peers and experts	<i>Communication</i>
Develop ancillary skills, where necessary, to obtain positions outside scientific research.	<i>Teamwork</i>
Apply team science principles to solve complex problems and analyses.	
Demonstrate teamwork skills applied in service or scholarship.	
Develop awareness and appreciation of equity, community engagement challenges in academic research via participation in seminar series etc.	<i>Social Justice, Equity and Community engagement</i>