Curriculum Map of the Department of Biological Sciences

	Biological Level of Organization (and applicable courses)					
Outcomes	**General/Intro** **BIOL 111** Gen Biology I and **BIOL 112** Gen Biology II	**Genetics** **BIOL 300** Genetics or **BIOL 301** Genome Biology	**Cellular** **BIOL 305** Cell Biology or **BIOL 306** General Microbiology	**Systems** **BIOL 203** Hum Physiology or **BIOL 320** Hum & Comp Physiology or **BIOL 341** Neuroscience	**Organismal** **BIOL 220** Hum & Comp Anatomy or **BIOL 230** Invertebrate Bio or **BIOL 312** Plant Adaptation	**Population/Community** **BIOL 208** Nat Hist Great Lakes or **BIOL 213** Interaction in Environment or **BIOL 318** Ecology or **BIOL 333** Evolution
Explain how the structure and replication of genetic material manifests the flow of information in context of storage, expression and inheritance.	X	X				
Explain cellular structure and function, metabolic processes, gene expression and the differences between prokaryotic and eukaryotic cells.	X		X			
Explain how organ systems maintain homeostasis and apply feedback principles to physiological regulation.	X			X		

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Explain the distinguishing characteristics of major lineages as defined by their organismal structures and corresponding functions, development and evolution.	X				X	
Explain how populations evolve as a result of interactions with their living and non-living environment.	X					X
Find, interpret and use appropriate literature for scientific writing and research.	X	X				X
Generate logical interpretations and conclusions from graphs, models, and data of scientific research.	X	X				X