



# Course Competency Report by Code

Code: C293

## Middle School Science: Content Knowledge (C293)

Course of Study: C293 - Middle School Science: Content Knowledge  
Course Level: Undergraduate  
Course Division: Senior  
Discipline: General Natural Science  
Course Type:  
Department: Education

COMPETENCY #	COMPETENCY NAME	COMPETENCY TEXT
204.2.1	Molecular and Cellular Biology	The graduate has a broad understanding of the important concepts in molecular and cellular biology.
204.2.2	Biology of Organisms	The graduate has a broad understanding of the important concepts related to the biology of organisms.
204.2.3	Ecology	The graduate has a broad understanding of important concepts of ecology.
204.2.4	Evolution	The graduate has a broad understanding of evolution and the history of life on earth.
204.3.1	Chemical Structure	The graduate has a broad understanding of chemical structure and stability.
204.3.2	Chemical Reactions	The graduate has a broad understanding of chemical reactions.
204.3.3	Stoichiometry	The graduate has a broad understanding of stoichiometry.
204.3.4	Solutions, Rates, and Energy Changes	The graduate has a broad understanding of solutions, rates of reaction, and energy changes.
204.4.1	Energy	The graduate has a broad understanding of energy, including mechanics, heat, and electricity and magnetism.
204.4.2	Nuclear Physics and Wave Motion	The graduate has a broad understanding of wave motion and atomic nuclear physics.
204.5.1	Astronomy	The graduate has a broad understanding of the basic concepts of astronomy.
204.5.2	Geology	The graduate has a broad understanding of the principles of geology.



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204.5.3	Meteorology	The graduate has a broad understanding of the concepts of meteorology.
204.5.4	Oceanography	The graduate has a broad understanding of the basic concepts of oceanography.
602.6.1	Teaching Methods- Science (Secondary)	The graduate understands and provides safe, effective, research-based instruction in science.