

Undergraduate Learning Outcomes

(Approved by Faculty Senate May 8, 2017)

Existing NDSU Categories	Core Undergraduate Learning Outcome for	Undergraduate Learning Outcomes
Communication (C)	Communication	Students will use a variety of modes, particularly written, oral, artistic, and visual, to <ul style="list-style-type: none"> effectively communicate analysis, knowledge, understanding, expression and/or conclusions skillfully use high-quality, credible, relevant sources demonstrate appropriate conventions in a variety of communication situations demonstrate the ability to communicate effectively with diverse audiences in a variety of contexts
Quantitative Reasoning (R)	Critical Thinking, Creative Thinking, and Problem Solving	Students will <ul style="list-style-type: none"> explain the nature of evidence used for analysis apply quantitative and qualitative methods to collect and analyze data apply creativity and divergent thinking evaluate the assumptions, evidence, and logic of competing views and explanations identify methods of inquiry, approaches to knowledge, and their assumptions and limitations in multiple disciplines evaluate, synthesize, and apply evidence to understand and address complex, real world problems generate creative, reasoned, approaches or solutions to unscripted, real world problems
Science & Technology (S)	Natural and Physical Sciences or Technology	TECHNOLOGY
		Students will <ul style="list-style-type: none"> apply technology to demonstrate creativity and solve problems use technology to enhance understanding identify the social, aesthetic, and ethical implications of technological decisions analyze how technology shapes, limits, and augments our experiences and understandings
		NATURAL AND PHYSICAL WORLDS
Students will <ul style="list-style-type: none"> analyze components and dynamics of natural and physical worlds develop models to explain phenomena within the natural and physical worlds identify the role of scientific methods in the study of natural and physical worlds 		
Humanities & Fine Arts (A)	Human Societies	Students will <ul style="list-style-type: none"> identify the nature and impact of aesthetic and creative activities in human experience analyze the interplay of self and society, particularly how social structures shape human experiences and how humans shape social structures analyze the components and dynamics of human societies in their artistic, cultural, and historical contexts apply theories or research methods to understand human events, identities, artifacts, or social structures engage in a creative, aesthetic, or artistic activity
Social & Behavioral Sciences (B)		
Social & Behavioral Sciences - Wellness (W)	Personal & Social Responsibility	Students will <ul style="list-style-type: none"> examine their own values, biases, and conclusions analyze the ethical basis for and implications of personal, professional, and civic decisions comprehend and demonstrate appropriate standard of professional behavior identify stewardship of the land and its people as integral to a land-grant university analyze human impacts on the world and the importance of sustaining its resources for future generations
Cultural Diversity (D) (embedded in other category)	Diversity (embedded in other category)	Students will <ul style="list-style-type: none"> identify how values and contributions of diverse societies provide contexts for individual experiences, values, ideas, artistic expressions, and identities identify the role diversity plays in the ability of biological organisms to adapt to a changing environment evaluate how diverse systems (both natural and human-made), technologies, or innovations emerge from, interact with, and affect various communities collaborate with others in diverse interpersonal, intercultural, or international settings
Global Perspectives (G) (embedded in other category)	Global Perspectives (embedded in other category)	Students will <ul style="list-style-type: none"> apply theories or research methods to develop strategies and solutions that address global challenges identify potential benefits and explore the opportunities of being a global citizen analyze how communities are impacted by and/or contribute to globalization from various perspectives analyze the process and/or develop models of global trends evaluate global phenomena using perspectives, attitudes and beliefs of communities with cultural backgrounds different from their own
General Education Categories that do not follow standard review procedures		
Upper Division Writing (approved by the GE Committee after review from the English Department in the Disciplines Committee)	Communication	Students will use a variety of modes, particularly written, oral, artistic, and visual, to <ul style="list-style-type: none"> effectively communicate analysis, knowledge, understanding, expression and/or conclusions skillfully use high-quality, credible, relevant sources demonstrate appropriate conventions in a variety of communication situations demonstrate the ability to communicate effectively with diverse audiences in a variety of contexts
Capstone in major (not presently reviewed by the GE committee)	Critical Thinking, Creative Thinking, and Problem Solving	Students will <ul style="list-style-type: none"> explain the nature of evidence used for analysis apply quantitative and qualitative methods to collect and analyze data apply creativity and divergent thinking evaluate the assumptions, evidence, and logic of competing views and explanations identify methods of inquiry, approaches to knowledge, and their assumptions and limitations in multiple disciplines evaluate, synthesize, and apply evidence to understand and address complex, real world problems generate creative, reasoned, approaches or solutions to unscripted, real world problems