General Education Program Alignment Documents

Alignment by General Education Category

GE Category	PLO	ELO	Description
American Institutions	Examine the history, principles, forms of government, and economic system of the United States through a multi-disciplinary lens.	Information Literacy	Collect, evaluate, organize, and use information.
	Analyze how historical forces, political structures, economic institutions, and conflicting beliefs have shaped the American experience.	Critical Thinking	Analyze ideas, information, and problems.
		Ethical Reasoning	Recognize and consider the ethical dimension of behavior.
		Inclusion	Understand and apply the principles of diversity, inclusion, and equity.

GE Category	PLO	ELO	Description
Fine Arts	Analyze the significance of creative art from various traditions, time periods, and cultures.	Critical Thinking	Analyze ideas, information, and problems.
	Demonstrate skills in critical and aesthetic judgment with knowledge of key themes, concepts, issues, terminology, and ethical standards employed in creative arts disciplines.	Critical Thinking	Analyze ideas, information, and problems.
		Ethical Reasoning	Recognize and consider the ethical dimension of behavior.
	Demonstrate an understanding of creative art as a means of personal and social expression with aesthetic perspectives that vary historically and culturally.	Inclusion	Understand and apply the principles of diversity, inclusion, and equity.
	Create works of art and/or increase understanding of creative processes in writing, visual arts, interactive entertainment, or performing arts.	Communication	Communicate facts and ideas.

GE Category	PLO	ELO	Description
Humanities	Investigate complex philosophical, literary, theological, historical, or artistic texts (which may include writings, films, speeches, etc.) concerning human experience and meaning through carefully reasoned and creative interpretations that are supported by research, analysis,	Critical Thinking	Analyze ideas, information, and problems.
		Ethical Reasoning	Recognize and consider the ethical dimension of behavior.
	Critically evaluate interpretations of texts through precise reasoning and through the logical development, presentation, and defense of ideas in both oral and written form.	Communication	Communicate facts and ideas.
		Critical Thinking	Analyze ideas, information, and problems.
		Ethical Reasoning	Recognize and consider the ethical dimension of behavior.
	Engage in an informed and respectful way with culturally diverse points of view by participating in meaningful classroom dialogue that develops consideration for and understanding of the interdependence of diverse values, lifestyles, and traditions.	Communication	Communicate facts and ideas.
		Inclusion	Understand and apply the principles of diversity, inclusion, and equity.
	Formulate connections across disciplinary contexts between historical periods, cultures, theories and/or civilizations by understanding the influence of social, cultural, linguistic, and/or historical circumstances on the human experience	Critical Thinking	Analyze ideas, information, and problems.
	Develop informed, ethical, and creative thinking through collaborative and independent work on philosophical, literary, theological, historical, or artistic texts.	Critical Thinking	Analyze ideas, information, and problems.
		Ethical Reasoning	Recognize and consider the ethical dimension of behavior.

GE Category	PLO	ELO	Description
Quantitative Literacy	Interpret information presented in various mathematical forms (e.g. graphs, equations, diagrams and tables).	Information Literacy	Collect, evaluate, organize, and use information.
		Quantitative Literacy	Understand and work with numbers.
	Represent relevant information using symbolic, visual, numeric, and verbal conventions (e.g. equations, graphs, diagrams, and tables).	Communication	Communicate facts and ideas.
		Information Literacy	Collect, evaluate, organize, and use information.
	Perform basic calculations to solve problems.	Quantitative Literacy	Understand and work with numbers.
	Use quantitative information in context.	Information Literacy	Collect, evaluate, organize, and use information.
		Quantitative Literacy	Understand and work with numbers.
	Draw appropriate conclusions based on quantitative analysis of data.	Information Literacy	Collect, evaluate, organize, and use information.
		Quantitative Literacy	Understand and work with numbers.
	Determine reasonableness of results.	Information Literacy	Collect, evaluate, organize, and use information.
		Quantitative Literacy	Understand and work with numbers.
	Recognize the limits of the analysis.	Information Literacy	Collect, evaluate, organize, and use information.
		Quantitative Literacy	Understand and work with numbers.
	Make important assumptions in estimation, modeling, and data analysis.	Information Literacy	Collect, evaluate, organize, and use information.
		Quantitative Literacy	Understand and work with numbers.
	Evaluate assumptions in estimation, modeling, and data analysis.	Information Literacy	Collect, evaluate, organize, and use information.
		Quantitative Literacy	Understand and work with numbers.
	Express quantitative evidence in support of the argument or purpose of the work.	Communication	Communicate facts and ideas.
		Quantitative Literacy	Understand and work with numbers.

GE Category	PLO	ELO	Description
Social and Behavioral Science	Explain the nature, history, theories, and methods of the social sciences.	Critical Thinking	Analyze ideas, information, and problems.
		Information Literacy	Collect, evaluate, organize, and use information.
	Evaluate debates about the relational, cultural, historical, and natural contexts that shape the human experience.	Communication	Communicate facts and ideas.
		Ethical Reasoning	Recognize and consider the ethical dimension of behavior.
		Inclusion	Understand and apply the principles of diversity, inclusion, and equity.
	Discern similarities and differences among individuals at different life stages, between individuals, between social groups within a society, between societies, and between historical periods.	Critical Thinking	Analyze ideas, information, and problems.
		Inclusion	Understand and apply the principles of diversity, inclusion, and equity.

GE Category	PLO	ELO	Description
Writing	Utilize writing and reading for inquiry, learning, thinking, and communicating.	Communication	Communicate facts and ideas.
		Critical Thinking	Analyze ideas, information, and problems.
	Apply the techniques of generating ideas, revising, editing, and proof-reading in the writing process.	Communication	Communicate facts and ideas.
		Critical Thinking	Analyze ideas, information, and problems.
	Integrate one's own ideas with those of others after evaluating the differences in quality between scholarly sources and unreviewed personal sources or web-based sources.	Critical Thinking	Analyze ideas, information, and problems.
		Information Literacy	Collect, evaluate, organize, and use information.
	Analyze the relationships among language, knowledge, and power.	Critical Thinking	Analyze ideas, information, and problems.
		Ethical Reasoning	Recognize and consider the ethical dimension of behavior.
	Use a variety of technologies to address a range of audiences.	Communication	Communicate facts and ideas.
		Digital Literacy	Use digital technologies.

GE Category	PLO	ELO	Description
Wellness Distribution	Identify information analysis practices that promote personal wellness.	Critical Thinking	Analyze ideas, information, and problems.
	Explain factors that can support a healthy life.	Communication	Communicate facts and ideas.
	Apply a range of health knowledge toward living a healthy and fit life.	Information Literacy	Collect, evaluate, organize, and use information.
	Using principles of wellness, analyze the effects of personal choices in living a healthy and fit life, both physically and mentally.	Ethical Reasoning	Recognize and consider the ethical dimension of behavior.

GE Category	PLO	ELO	Description
All Science Courses	Apply the principles of scientific reasoning to data and discussions related to issues such as: a. The impact of science on society b. How society and science are connected c. The impact of scientific understanding and advancement on technology, life, and the environment d. The historical contexts of scientific discoveries	Critical Thinking	Analyze ideas, information, and problems.
		Scientific Literacy	Understand scientific concepts and methods.
	Understand and explain science as an iterative process driven by empirical observation and experimentation.	Scientific Literacy	Understand scientific concepts and methods.
	Describe the limits imposed on our comprehension and knowledge by sensory, physical, or technical constraints.	Critical Thinking	Analyze ideas, information, and problems.
	Apply scientific methods by quantitatively investigating and assessing situations extracted from ordinary experience or from societal or environmental problems related to modern science.	Critical Thinking	Analyze ideas, information, and problems.
		Scientific Literacy	Understand scientific concepts and methods.

GE Category	PLO	ELO	Description
Physical Sciences	Explain the fundamental unifying principles of physical sciences, including the nature of forces, motion, and the flow of matter and energy through systems on different scales.	Critical Thinking	Analyze ideas, information, and problems.
		Information Literacy	Collect, evaluate, organize, and use information.
		Scientific Literacy	Understand scientific concepts and methods.

GE Category	PLO	ELO	Description
Life Sciences	Explain the fundamental unifying principles of the life sciences, which include evolution, heredity and reproduction, essential chemical and physical components required for life, and the human role in, and impact on, the biosphere, including the importance of biodiversity and sustainability of ecosystems.	Critical Thinking	Analyze ideas, information, and problems.
		Information Literacy	Collect, evaluate, organize, and use information.
		Scientific Literacy	Understand scientific concepts and methods.

GE Category	PLO	ELO	Description
Applied Technical Sciences	Employ scientific principles to technical fields in areas such as: a. Interconnections between society and science b. The impact of scientific understanding and advancement on technology, life, and the environment c. The historical contexts of scientific discoveries.	Critical Thinking	Analyze ideas, information, and problems.
		Digital Literacy	Use digital technologies.
		Scientific Literacy	Understand scientific concepts and methods.
	Apply scientific principles and methods to assess situations extracted from ordinary experience or from societal or environmental problems related to current and emerging applied technical sciences.	Digital Literacy	Use digital technologies.
		Ethical Reasoning	Recognize and consider the ethical dimension of behavior.
		Scientific Literacy	Understand scientific concepts and methods.
	Demonstrate understanding of some of the fundamental unifying principles of technical applied sciences, which include ethics; essential life and physical science components required for technical innovation; and the human role in, and impact on, the biosphere.	Digital Literacy	Use digital technologies.
		Ethical Reasoning	Recognize and consider the ethical dimension of behavior.
		Inclusion	Understand and apply the principles of diversity, inclusion, and equity.
		Scientific Literacy	Understand scientific concepts and methods.

Alignment by Essential Learning Outcomes

ELO	Description	GE Category	PLO
Communication	Communicate facts and ideas.	Fine Arts	Create works of art and/or increase understanding of creative processes in writing, visual arts, interactive entertainment, or performing arts.
		Humanities	Critically evaluate interpretations of texts through precise reasoning and through the logical development, presentation, and defense of ideas in both oral and written form.
			Engage in an informed and respectful way with culturally diverse points of view by participating in meaningful classroom dialogue that develops consideration for and understanding of the interdependence of diverse values, lifestyles, and traditions.
		Quantitative Literacy	Represent relevant information using symbolic, visual, numeric, and verbal conventions (e.g. equations, graphs, diagrams, and tables).
			Express quantitative evidence in support of the argument or purpose of the work.
		Social and Behavioral Science	Evaluate debates about the relational, cultural, historical, and natural contexts that shape the human experience.
		Writing	Utilize writing and reading for inquiry, learning, thinking, and communicating.
			Apply the techniques of generating ideas, revising, editing, and proof-reading in the writing process.
			Use a variety of technologies to address a range of audiences.
		Wellness Distribution	Explain factors that can support a healthy life.

ELO	Description	GE Category	PLO
Digital Literacy	Use digital technologies.	Writing	Use a variety of technologies to address a range of audiences.
		Applied Technical Sciences	Employ scientific principles to technical fields in areas such as: a. Interconnections between society and science b. The impact of scientific understanding and advancement on technology, life, and the environment c. The historical contexts of scientific discoveries.
			Apply scientific principles and methods to assess situations extracted from ordinary experience or from societal or environmental problems related to current and emerging applied technical sciences.
			Demonstrate understanding of some of the fundamental unifying principles of technical applied sciences, which include ethics; essential life and physical science components required for technical innovation; and the human role in, and impact on, the biosphere.

ELO	Description	GE Category	PLO
Ethical Reasoning	Recognize and consider the ethical dimension of behavior.	American Institutions	Analyze how historical forces, political structures, economic institutions, and conflicting beliefs have shaped the American experience.
		Fine Arts	Demonstrate skills in critical and aesthetic judgment with knowledge of key themes, concepts, issues, terminology, and ethical standards employed in creative arts disciplines.
		Humanities	Investigate complex philosophical, literary, theological, historical, or artistic texts (which may include writings, films, speeches, etc.) concerning human experience and meaning through carefully reasoned and creative interpretations that are supported by research, analysis, and evaluation particular to Humanities disciplines.
			Critically evaluate interpretations of texts through precise reasoning and through the logical development, presentation, and defense of ideas in both oral and written form.
			Develop informed, ethical, and creative thinking through collaborative and independent work on philosophical, literary, theological, historical, or artistic texts.
		Social and Behavioral Science	Evaluate debates about the relational, cultural, historical, and natural contexts that shape the human experience.
		Writing	Analyze the relationships among language, knowledge, and power.
		Wellness Distribution	Using principles of wellness, analyze the effects of personal choices in living a healthy and fit life, both physically and mentally.
		Applied Technical Sciences	Apply scientific principles and methods to assess situations extracted from ordinary experience or from societal or environmental problems related to current and emerging applied technical sciences.
			Demonstrate understanding of some of the fundamental unifying principles of technical applied sciences, which include ethics; essential life and physical science components required for technical innovation; and the human role in, and impact on, the biosphere.

ELO	Description	GE Category	PLO
Inclusion	Understand and apply the principles of diversity, inclusion, and equity.	American Institutions	Analyze how historical forces, political structures, economic institutions, and conflicting beliefs have shaped the American experience.
		Fine Arts	Demonstrate an understanding of creative art as a means of personal and social expression with aesthetic perspectives that vary historically and culturally.
		Humanities	Engage in an informed and respectful way with culturally diverse points of view by participating in meaningful classroom dialogue that develops consideration for and understanding of the interdependence of diverse values, lifestyles, and traditions.
		Social and Behavioral Science	Evaluate debates about the relational, cultural, historical, and natural contexts that shape the human experience.
			Discern similarities and differences among individuals at different life stages, between individuals, between social groups within a society, between societies, and between historical periods.
		Applied Technical Sciences	Demonstrate understanding of some of the fundamental unifying principles of technical applied sciences, which include ethics; essential life and physical science components required for technical innovation; and the human role in, and impact on, the biosphere.

ELO	Description	GE Category	PLO
Quantitative Literacy	Understand and work with numbers.	Quantitative Literacy	Interpret information presented in various mathematical forms (e.g. graphs, equations, diagrams and tables).
			Perform basic calculations to solve problems.
			Use quantitative information in context.
			Draw appropriate conclusions based on quantitative analysis of data.
			Determine reasonableness of results.
			Recognize the limits of the analysis.
			Make important assumptions in estimation, modeling, and data analysis.
			Evaluate assumptions in estimation, modeling, and data analysis.
			Express quantitative evidence in support of the argument or purpose of the work.

ELO	Description	GE Category	PLO
Scientific Literacy	Understand scientific concepts and methods.	All Science Courses	Apply the principles of scientific reasoning to data and discussions related to issues such as: a. The impact of science on society b. How society and science are connected c. The impact of scientific understanding and advancement on technology, life, and the environment d. The historical contexts of scientific discoveries
			Understand and explain science as an iterative process driven by empirical observation and experimentation.
			Apply scientific methods by quantitatively investigating and assessing situations extracted from ordinary experience or from societal or environmental problems related to modern science.
		Physical Sciences	Explain the fundamental unifying principles of physical sciences, including the nature of forces, motion, and the flow of matter and energy through systems on different scales.
		Life Sciences	Explain the fundamental unifying principles of the life sciences, which include evolution, heredity and reproduction, essential chemical and physical components required for life, and the human role in, and impact on, the biosphere, including the importance of biodiversity and sustainability of ecosystems.
		Applied Technical Sciences	Employ scientific principles to technical fields in areas such as: a. Interconnections between society and science b. The impact of scientific understanding and advancement on technology, life, and the environment c. The historical contexts of scientific discoveries.
			Apply scientific principles and methods to assess situations extracted from ordinary experience or from societal or environmental problems related to current and emerging applied technical sciences.
			Demonstrate understanding of some of the fundamental unifying principles of technical applied sciences, which include ethics; essential life and physical science components required for technical innovation; and the human role in, and impact on, the biosphere.

ELO	Description	GE Category	PLO
Information Literacy	Collect, evaluate, organize, and use information.	American Institutions	Examine the history, principles, forms of government, and economic system of the United States through a multi-disciplinary lens.
		Quantitative Literacy	Interpret information presented in various mathematical forms (e.g. graphs, equations, diagrams and tables).
			Represent relevant information using symbolic, visual, numeric, and verbal conventions (e.g. equations, graphs, diagrams, and tables).
			Use quantitative information in context.
			Draw appropriate conclusions based on quantitative analysis of data.
			Determine reasonableness of results.
			Recognize the limits of the analysis.
			Make important assumptions in estimation, modeling, and data analysis.
			Evaluate assumptions in estimation, modeling, and data analysis.
		Social and Behavioral Science	Explain the nature, history, theories, and methods of the social sciences.
		Writing	Integrate one's own ideas with those of others after evaluating the differences in quality between scholarly sources and unreviewed personal sources or web-based sources.
		Wellness Distribution	Apply a range of health knowledge toward living a healthy and fit life.
		Physical Sciences	Explain the fundamental unifying principles of physical sciences, including the nature of forces, motion, and the flow of matter and energy through systems on different scales.
		Life Sciences	Explain the fundamental unifying principles of the life sciences, which include evolution, heredity and reproduction, essential chemical and physical components required for life, and the human role in, and impact on, the biosphere, including the importance of biodiversity and sustainability of ecosystems.

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Critical Thinking	Analyze ideas, information, and problems.	American Institutions	Analyze how historical forces, political structures, economic institutions, and conflicting beliefs have shaped the American experience.
		Fine Arts	Analyze the significance of creative art from various traditions, time periods, and cultures.
			Demonstrate skills in critical and aesthetic judgment with knowledge of key themes, concepts, issues, terminology, and ethical standards employed in creative arts disciplines.
		Humanities	Investigate complex philosophical, literary, theological, historical, or artistic texts (which may include writings, films, speeches, etc.) concerning human experience and meaning through carefully reasoned and creative interpretations that are supported by research, analysis, and evaluation particular to Humanities disciplines.
			Critically evaluate interpretations of texts through precise reasoning and through the logical development, presentation, and defense of ideas in both oral and written form.
			Formulate connections across disciplinary contexts between historical periods, cultures, theories and/or civilizations by understanding the influence of social, cultural, linguistic, and/or historical circumstances on the human experience
			Develop informed, ethical, and creative thinking through collaborative and independent work on philosophical, literary, theological, historical, or artistic texts.
		Social and Behavioral Science	Explain the nature, history, theories, and methods of the social sciences.
			Discern similarities and differences among individuals at different life stages, between individuals, between social groups within a society, between societies, and between historical periods.
		Writing	Utilize writing and reading for inquiry, learning, thinking, and communicating.
			Apply the techniques of generating ideas, revising, editing, and proof-reading in the writing process.
			Integrate one's own ideas with those of others after evaluating the differences in quality between scholarly sources and unreviewed personal sources or web-based sources.
			Analyze the relationships among language, knowledge, and power.
		Wellness Distribution	Identify information analysis practices that promote personal wellness.
		All Science Courses	Apply the principles of scientific reasoning to data and discussions related to issues such as: a. The impact of science on society b. How society and science are connected c. The impact of scientific understanding and advancement on technology, life, and the environment d. The historical contexts of scientific discoveries
			Describe the limits imposed on our comprehension and knowledge by sensory, physical, or technical constraints.
			Apply scientific methods by quantitatively investigating and assessing situations extracted from ordinary experience or from societal or environmental problems related to modern science.
		Physical Sciences	Explain the fundamental unifying principles of physical sciences, including the nature of forces, motion, and the flow of matter and energy through systems on different scales.
		Life Sciences	Explain the fundamental unifying principles of the life sciences, which include evolution, heredity and reproduction, essential chemical and physical components required for life, and the human role in, and impact on, the biosphere, including the importance of biodiversity and sustainability of ecosystems.
		Applied Technical Sciences	Employ scientific principles to technical fields in areas such as: a. Interconnections between society and science b. The impact of scientific understanding and advancement on technology, life, and the environment c. The historical contexts of scientific discoveries.