Appendix:
Pathways Framework and Learning Outcomes
With Recommended Modifications

Note: Additions are indicated by underlining and deletions by strikethroughs.

I. Required Common Core

A. English Composition and Communication: 7 credits

English composition courses must meet all of the following learning outcomes. A student will be able to:

- Demonstrate critical reading, listening, and analytical skills, including identifying an argument’s major assertions and assumptions, and evaluating its supporting evidence.
- Produce coherent texts (such as formal essays, research papers, and reports, and speeches) using appropriate technology, critique one’s own and others’ texts, and improve them using standard English, grammar, mechanics, and clear prose.
- Demonstrate research skills using appropriate technology, including finding, evaluating, and synthesizing primary and secondary sources.
- Support a thesis with a well-reasoned oral or written argument and communicate persuasively across a variety of contexts, purposes, audiences, and media, using appropriate rhetorical modes and technology.
- Formulate original ideas and integrate them with the ideas of others by employing the conventions of ethical attribution and citation.

B. Mathematical and Quantitative Reasoning: 4 credits

Mathematical and quantitative reasoning courses must meet all of the following learning outcomes. A student will be able to:

- Interpret and draw appropriate inferences from mathematical models, such as formulas, graphs, and tables, and technology-aided models.
- Use algebraic, numerical, graphical, or statistical or technology-assisted methods to draw accurate inferences and solve mathematical problems commensurate with level of learning objectives.
- Represent quantitative problems expressed in natural language in a suitable mathematical format.
- Effectively communicate quantitative analysis or solutions to mathematical problems in written, oral, or visual form.
- Evaluate solutions to problems for reasonableness using a variety of means, including informed estimation.
- Identify and apply logically valid arguments.
- Apply mathematics in a real world context.
C. Life and Physical Sciences: 4 credits

Life and physical science courses must meet all of the following learning outcomes. A student will be able to:

6. Identify and apply the fundamental concepts and research methods of a scientific discipline.
7. Apply the scientific method to explore natural phenomena, including observation, hypothesis development, experimentation, measurement, data collection, evaluation of evidence, quantitative analysis, and presentation of data.
8. Use the tools of a scientific discipline to carry out collaborative investigations in appropriate laboratory settings.
9. Obtain, analyze, and interpret data and present it in an effective written laboratory report.
10. Apply research scientific ethics and unbiased assessment in the reporting of scientific data.
11. Retrieve, evaluate, and interpret information from a variety of sources.

II. Flexible Common Core: five 3-credit liberal arts courses, with at least one course from each of the four areas and the possibility of two no more than one courses in one any discipline.

Flexible Common Core courses must meet all three both learning outcomes below:

- Retrieve, evaluate, and interpret information from a variety of sources and points of view.
- Evaluate evidence and arguments critically.
- Using evidence appropriately to support conclusions, produce well-reasoned written or oral arguments or presentations commensurate with level of learning objectives using evidence to support conclusions.

A. World Cultures

A course in this area must meet the mandatory learning outcomes under II above and at least three of the following learning outcomes. A student will be able to:

- Identify and apply the fundamental concepts and research methods of a discipline or interdisciplinary field exploring world cultures, past and present, including, but not limited to, anthropology, economics, foreign languages (nonduplicative of previous language acquisition) (with placement at level commensurate with student language competency), history, political science, and world literature.
- Use appropriate technologies to conduct research and to communicate.
• Analyze the concept of culture and global cultural diversity and describe any given event or process from more than one cultural viewpoint.
• Analyze the historical development of a non-U.S. society.
• Analyze the significance of a major movement that has shaped the world’s societies.
• Identify and discuss the role that race, ethnicity, class, gender, language, or belief plays in cultural systems.
• Speak, read, and write in a language other than English and use the language conceptual skills to appreciate and respond to cultures other than one’s own.

B. U.S. Experience in its Diversity

A course in this area must meet the mandatory learning outcomes under II above and at least three of the following learning outcomes. A student will be able to:

• Identify and apply the fundamental concepts and research methods of a discipline or interdisciplinary field exploring the U.S. experience in its diversity, including, but not limited to, anthropology, economics, history, political science, sociology, and U.S. literature.
• Use appropriate technologies to conduct research and to communicate.
• Analyze the major themes of U.S. history from different social, economic, demographic, cultural, or political perspectives.
• Evaluate how immigration and slavery have shaped the development of the United States.
• Explain the role of the United States in international relations and how this role has influenced the country and the rest of the world.
• Identify and differentiate among the legislative, judicial, and executive branches of government and analyze their influence on the development of U.S. democracy.
• Analyze common institutions or patterns of life in contemporary U.S. society and how they influence or are influenced by race, ethnicity, class, gender, sexual orientation, or other forms of social differentiation.

C. Creative Expression Aesthetics and Communication

A course in this area must meet the mandatory learning outcomes under II above and at least three of the following learning outcomes. A student will be able to:

• Identify and apply the fundamental concepts and research methods of a discipline or interdisciplinary field exploring creative expression, aesthetics and communication, including, but not limited to, communications, creative writing, and the visual and performing media arts, music, and theater.
• Work collaboratively to accomplish learning tasks.
• Analyze how arts from diverse cultures of the past serve as a foundation for those of the present and describe the significance of works of art in the societies that created them.
• Articulate how meaning is created in the arts or communications and how experience is interpreted and conveyed.
• Demonstrate knowledge of the skills involved in the creative process.
• Use appropriate technologies to conduct research and to communicate.
• Speak clearly, accurately, and coherently in several modes of delivery.

D. Individual and Society

A course in this area must meet the mandatory learning outcomes under II above and at least three of the following learning outcomes. A student will be able to:

• Identify and apply the fundamental concepts and research methods of a discipline or interdisciplinary field exploring the relationship between the individual and society, including, but not limited to, anthropology, computer science, philosophy, psychology, religion, and sociology.
• Work collaboratively to accomplish learning tasks.
• Use appropriate technologies to conduct research and to communicate.
• Examine how an individual’s place in society affects experiences, values, and choices.
• Articulate and assess ethical views and their underlying premises.
• Articulate ethical uses of data and other information resources to respond to problems and questions.
• Analyze the transformational impact of science or technology on the individual and society.
• Identify, analyze, and engage with local, national, or global trends and analyze their impact on individual or collective decision-making.