

eCore Course-Level Outcomes: Fall 2011

Course-level outcomes relevant to each General Core area are mapped below, along with the recommended assessment.

AREA A.1

General Outcomes

1. Ability to assimilate, analyze, and present in oral and written forms, a body of information. (CT)
2. Ability to adapt communication to circumstances and audience.
3. Ability to produce communication that is stylistically appropriate and mature.
4. Ability to communicate in standard English for academic and professional contexts.
5. Ability to compose effective written materials for various academic and professional contexts. (CT)
6. Ability to interpret content of written materials on related topics from various disciplines.

ENGL 1102 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations	Met Expectations	Below Expectations
Write well-developed and logically organized essays. (CT) Demonstrate critical thinking skills in reading and writing assignments. (CT)	A.1.1	Unit 3 Essay or Unit 4 Essay	29.69%	56.25%	14.06%
	A1.3	Discussion 2.3 or Portfolio Exercise 4	40.77%	44.62%	14.62%
Plan and conduct a research project using a variety of research sources.	A.1.5	Portfolio Research Paper	25.60%	56.80%	17.60%
Use the writing process to understand different texts.	A1.6	Writing Assignment – Unit 2	18.98%	59.12%	21.90%

AREA A.2

General Outcomes

1. Ability to model situations from a variety of settings in generalized mathematical forms.
2. Ability to express and manipulate mathematical information, concepts, and thoughts in verbal, numeric, graphical and symbolic form while solving a variety of problems.
3. Ability to solve multiple-step problems through different (inductive, deductive and symbolic) modes of reasoning.
4. Ability to shift among the verbal, numeric, graphical and symbolic modes of considering relationships.
5. Ability to extract quantitative data from a given situation, translate the data into information in various modes, evaluate the information, abstract essential information, make logical deductions, and arrive at reasonable conclusions.

MATH 1101 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations	Met Expectations	Below Expectations
Understand the concept and basic properties of functions; linear functions; quadratic functions; polynomial functions; logarithmic functions; and piecewise functions.	A.2.1, A.2.2	Midterm Exam Final Exam	10.71%	25.00%	64.29%

MATH 1111 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations	Met Expectations	Below Expectations
Model situations from a variety of settings in generalized mathematical forms.	A.1	Final Exam: Inclusive of all course outcomes	38.46%	21.15%	40.38%
Express and manipulate mathematical information, concepts, and thoughts in verbal/numeric/graphical/symbolic form while solving a variety of problems.	A.2	Final Exam: Inclusive of all course outcomes	39.62%	16.04%	44.34%
Solve multiple-step problems through different (inductive, deductive and symbolic) modes of reasoning.	A.3	Final Exam – Comprehensive – inclusive of applicable Course Outcomes to that date	42.16%	16.67%	41.18%
Shift among the verbal, numeric, graphical, and symbolic modes of considering relationships.	A.4	Final Exam – Comprehensive – inclusive of applicable Course Outcomes to that date	41.67%	13.89%	44.44%
Extract quantitative data from a given situation, translate the data into information in various modes, evaluate the information, abstract essential information, make logical deductions, and arrive at reasonable conclusions. (CT)	A.5	Final Exam – Comprehensive – inclusive of applicable Course Outcomes to that date	36.27%	16.67%	47.06%

Learning Outcomes

MATH 1113

Course-Specific Outcome

	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Identify the characteristics of various functions.	A.1	Midterm Exam	46.75%	22.08%	31.17%
Sketch and analyze the graphs of algebraic, trigonometric, exponential, logarithmic, and inverse trigonometric functions.	A.2	Midterm Exam	43.21%	12.35%	44.44%
Set up and solve word problems using algebraic, trigonometric, exponential, logarithmic, and inverse trigonometric functions.	A.4	Midterm Exam	46.91%	12.35%	40.74%
Solve equations using algebraic, trigonometric, exponential, logarithmic, and inverse trigonometric functions.	A.3	Midterm Exam	46.75%	12.99%	40.26%

MATH 1501

Course-Specific Outcome

General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Describe the domain, range, and action of one variable function. Understand various ways of describing functions and various properties that a function can have such as odd, even, or monotone. Compute sums, differences, products, quotients, and compositions of functions. Compute translations, reflections, and scalings of curves and graphs of functions. Compute trigonometric functions and understand their definitions. Solve triangles.	A.1 Midterm Exam – Comprehensive – All-inclusive of all applicable Course Outcomes to that date	78.38%	0.00%	21.62%
Limits and Continuity: Calculate and evaluate limits and represent these concepts graphically, algebraically, numerically, and in words. Apply knowledge of limits and continuity to analyze and solve real-world problems. Determine when the use of technology is appropriate in solving problems related to limits and continuity, and how to apply the technology.	A.2 Midterm Exam – Comprehensive – All-inclusive of all applicable Course Outcomes to that date	89.19%	0.00%	10.81%
Derivatives and Differentiation: Explain the definition of derivative and how it is related to tangent lines and rates of change, and to compute derivatives from the limit definition. Compute derivatives using all of the standard rules, displaying in particular a strong mastery of the Chain Rule. Compute derivatives of trigonometric functions and compute closely related trigonometric limits. Explain the concept of an implicitly defined function, and use the technique of implicit differentiation to differentiate functions that are defined implicitly. Model and solve related rates problems.	A.3 Final Exam – Comprehensive – inclusive of applicable Course Outcomes to that date	43.24%	0.00%	56.76%
Applications of the Derivative: Solve problems related to rates of change. Identify and describe properties of functions and their graphs. Apply the properties of functions and their graphs to real life problem situations.	A.4 Final Exam – Comprehensive – inclusive of applicable Course Outcomes to that date	85.71%	0.00%	14.29%
Applications of the Integral: Define and compute the arc length. Compute the area of surfaces of revolutions. Compute volumes of revolution. Compute consumer's surplus. Compute work and center of mass problems.	A.5 Final Exam – Comprehensive – inclusive of applicable Course Outcomes to that date	39.29%	0.00%	60.71%

AREA B

1. Ability to properly use appropriate technology in the evaluation, analysis, and synthesis of information in problem-solving situations.
2. Ability to communicate in various modes and media, including proper use of the appropriate technology
3. Ability to sustain a consistent purpose and point of view.
4. Ability to interpret inferences and develop subtleties of symbolic and indirect discourse.

COMM 1100

Course-Specific Outcome

General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
----------------------	-------------	------------------------------------	---------------------------------	-----------------------------------

Observe and utilize the recommended strategies for developing, delivering, and evaluating effective public presentations. (CT)

B1.3	Public speech	62.16%	33.78%	4.05%
------	---------------	--------	--------	-------

Describe the different ways in which language defines and frames situations.

B1.4	Film Analysis Unit 9	38.55%	31.33%	30.12%
------	----------------------	--------	--------	--------

Analyze the fundamental dimensions of cultural diversity (demographic, regional, and ideological) as they relate to communication.

B1.4	Discussion Unit 3	70.24%	21.43%	8.33%
------	-------------------	--------	--------	-------

ETEC 1101

Course-Specific Outcome

General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
----------------------	-------------	------------------------------------	---------------------------------	-----------------------------------

Select appropriate technologies and methods to compile, analyze, organize, and present relevant information effectively.

B.1	Lesson 4 Project Newsletter	20.00%	80.00%	0.00%
-----	-----------------------------	--------	--------	-------

Become effective users of technology.

B.2	Lesson 3 Project Resume	40.00%	60.00%	0.00%
-----	-------------------------	--------	--------	-------

AREA C

1. Ability to recognize the fine, literary, and performing arts as expressions of human experience.
2. Ability to make informed judgments about art forms from various cultures including one's own culture.
3. Ability to discern the impact and role of artistic and literary achievement in society and one's personal life.
4. Ability to critically analyze one's own culture.

ENGL 2111 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Recognize the range of literary genres and conventions as well as the levels of sophistication of literary masterpieces coming from different cultures. Develop a perspective on the variety of world cultures from ancient times through the early-modern period to understand how these cultures developed and how their ideas contributed to and still inform contemporary culture(s). Analyze and evaluate literary works in their social, historical, and cultural context. (CT) Compare and contrast the characteristics of literary works emerging from various cultures and times in order to recognize common human values and beliefs.	C.2	Unit 3 Written Discussion	38.21%	51.22%	10.57%
	C.1	Unit 5 Written Discussion	25.26%	61.05%	13.68%
	C.3	Unit 4 Written Discussion	45.45%	44.55%	10.00%
	C.2	Unit 6 Written Discussion	31.07%	62.14%	6.80%

ENGL 2132 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Demonstrate knowledge of a diversity of American cultures through the study of literature. (CT) Identify the important literary periods and themes of American Literature from the mid-19th Century to the present.	C.2 C.3	Unit 3 Written Discussion	48.78%	46.34%	4.88%
	C.1	Written Discussions Unit 1, Unit 2, or Unit 4	55.56%	33.33%	11.11%

PHIL 1001 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Explain and evaluate major arguments concerning freedom and determinism. (CT) Explain, evaluate and apply major ethical theories.	C.4	Discussion 7a	29.85%	50.75%	19.40%
	C.4	Discussion 8a (Ethics)	31.75%	53.97%	16.92%

Learning Outcomes

SPAN 2001 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Students should demonstrate an understanding of their languages and cultures in relation to the practices, products, and perspectives of the culture(s) of Spanish speaking countries. (CT)	C.4	Voice Board 1A or Voice Board 3A or Voice Board 5D	41.46%	41.46%	17.07%

SPAN 2002 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Students should demonstrate an understanding of their languages and cultures in relation to the practices, products, and perspectives of the culture(s) of Spanish speaking countries. (CT)	C.4	Voice Board 10A or Voice Board 6C or Voice Board 9D	39.13%	41.30%	19.57%

AREA D

1. Ability to understand basic scientific principles, theories, and laws as they apply to all scientific disciplines.
2. Ability to demonstrate knowledge in at least one area of science; ability to discern the role in and impact on science on society.
3. Ability to identify and properly use appropriate technologies for scientific inquiry and communication including collecting and analyzing scientific data.
4. Ability to understand the physical universe and science's relationship to it.
5. Ability to understand the changing nature of science.
6. Ability to understand the scope and limits on the appropriateness of scientific inquiry to physical phenomena.
7. Ability to demonstrate critical observation and analysis.
8. Ability to apply mathematical principles to scientific inquiry, including the use of statistics and formulae to understand quantitative data.
9. Ability to employ quantitative reasoning appropriately while applying scientific methodology to explore nature and the universe.
10. Ability to discern the impact of quantitative reasoning and mathematics on the sciences, society, and one's personal life.

CHEM 1211 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Demonstrate knowledge and understanding of: matter and measurement; reactions and reaction stoichiometry; thermochemistry; properties of gases; periodic properties of elements; atomic structure, chemical bonding, and molecular bonding theories.	D.1 D.2 D.4 D.5 D.6	Final Exam	30.77%	69.23%	0.00%
Employ critical thinking and systematic methods to solve problems, including conceptual and quantitative problems.	D.9 D.10	Laboratory Final Exam	46.15%	53.85%	0.00%
Collect and analyze scientific data, formulate appropriate conclusions from data analyses, and communicate findings.	D.3 D.7	Laboratory Final Exam	100.00%	0.00%	0.00%

CHEM 1212 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Demonstrate knowledge and understanding of: intermolecular forces, liquids, and solids; properties of solutions; chemical kinetics; chemical equilibrium; acid-base equilibria; chemical thermodynamics; electrochemistry.	D.1 D.2 D.4 D.5 D.6	Final Exam	20.69%	44.83%	34.48%
Employ critical thinking and systematic methods to solve problems, including conceptual and quantitative problems.	D.9 D.10	Laboratory Final Exam	100.00%	0.00%	0.00%
Collect and analyze scientific data, formulate appropriate conclusions from data analyses, and communicate findings. (CT)	D.3 D.7	Laboratory Final Exam	100.00%	0.00%	0.00%

Learning Outcomes

GEOL 1011 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Identify earth materials and discuss/interpret their origin, economic uses, compositions, and interrelationships. Demonstrate knowledge of the perspective of geologic events and processes, and the formation of earth materials; discuss evidence of plate tectonics and the earth's internal structure, and how processes within the earth influence its major surface features, control the location of the earth's major surface features, and control the location of earthquakes and volcanic activity. Demonstrate knowledge of Earth surface processes and their impact on mankind. Use maps, photos, and diagrams to identify topographic and geologic structures, and the processes which form them. (CT)	D.1	Unit 6 Lab Assignment; Unit 7 Lab Assignment	19.51%	58.54%	21.95%
	D.4 D.5	Midterm Exam	32.56%	46.51%	20.93%
	D.2	Unit 12: New Water Lab Assignment Midterm Exam – Question 30	29.31%	53.45%	17.24%
	D.3 D.6 D.7 D.8	Unit 11 Lab Assignment	21.95%	43.91%	34.15%

ISCI 1121 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Describe integrated science and the basic concepts involved in the study of the subject. Describe various ecosystem components. Discuss human population by calculating human population growth and identifying the impact of such growth on the environment. Explain the balance between the implementation costs of environmental regulations and their impact on mankind. Interpret environmental issues affecting the earth and its populations, including water use, food production, and urban development. (CT)	D.1 D.2	Unit 2 Discussion(2) Sustainability, Scientific Method, Matter and Energy	93.94%	0.00%	6.06%
	D.4 D.5	Interactions Discussion (3B)	96.88%	0.00%	3.13%
	D.8 D.9	Population Growth Issues Discussion (4B)	96.77%	0.00%	3.23%
	D.10	Environmental Regulations Discussion (8)	100.00%	0.00%	0.00%
	D.7	Personal Water Calculations Discussion (7C)	62.96%	37.04%	0.00%

PHYS 1112

Course-Specific Outcome

General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Understand and apply the laws and concepts associated with physics by solving word problems.	D.1 Lesson 4	25.53%	70.59%	5.88%
	D.2 Lesson 5			
	D.4 Lesson 6			
	D.6 Final Exam			
Perform simple laboratories and reach appropriate conclusions. (CT)	D.3 Laboratory	18.18%	81.82%	0.00%
	D.7 Reports for			
	D.9 Lessons 2, 7, or 9			
	D.10			
Represent data graphically by hand and computer.	D.8 Laboratory Reports for Lessons 1 and 5	55.56%	44.44%	0.00%

MATH 1401

Course-Specific Outcome

General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Extract quantitative data from a given situation, translate the data, evaluate information, abstract essential information, make logical deductions, and arrive at reasonable conclusions.	D.8 Project 4: Hypothesis Testing (Lesson 5.5-5.7)	82.35%	5.88%	11.76%

AREA E

1. Ability to relate local, national, and global social policy.
2. Ability to describe how historical, economic, political, social, and spatial relationships develop, persist, and change.
3. Ability to articulate the complexity of human behavior as functions of the commonality and diversity within groups.
4. Ability to identify and analyze both contemporary and historical perspectives on contemporary issues.
5. Ability to relate the contributions of groups and individuals to the history of ideas and belief systems.
6. Ability to appreciate and respect diversity among people and recognize the roles various peoples played in their culture. (GL)
7. Ability to consider and accommodate opposing points of view.

HIST 1111 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
<p>Identify and evaluate important historical, political, cultural, social, and economic movements; historical figures; and events that characterize the development of the great world civilizations from antiquity through 1500 CE.</p> <p>Analyze the various interpretations of world historical events, figures, and issues, and explain the ways and the reasons why these interpretations have changed over time.</p> <p>Identify, using at least three examples, the ways in which world civilizations and cultures interacted with and influenced one another from antiquity through 1500 CE.</p> <p>Identify the major historiographical issues associated with the significant time periods, cultures, figures, and events from antiquity through 1500 CE. (CT)</p>	E.1	Midterm Exam Score or Final Exam Score	43.65%	39.78%	16.57%
	E.2	Discussion 6 – Lesson 2 or Discussion 10 – Lesson 1	52.05%	33.56%	14.38%
	E.3	Unit 4 essay or Discussion Unit 5	61.58%	25.42%	12.99%
	E.4	Unit 12 Discussion	62.82%	26.92%	10.26%

HIST 2111 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
<p>Determine the relationship between local and national issues and events.</p> <p>Exhibit comprehension of the historical process of continuity and change.</p> <p>Appraise how and why the historical interpretations of the controversies, issues, personalities, and problems have changed over time.</p> <p>Identify trends and issues in intellectual and cultural history and be able to relate them to topics in US History.</p> <p>Recognize the role of diversity in American society. (GL)</p> <p>Analyze the trials and contributions of the many cultures that make up American society.</p>	E.1	Lesson 5 Discussion	53.13%	42.50%	4.38%
	E.2	Discussion 6 or Discussion 7	50.32%	40.76%	7.01%
	E.4	Discussion 4 or Discussion 5	41.86%	53.49%	4.65%
	E.5	Lesson 7 Essay	56.77%	29.03%	14.19%
	E.6	Discussion 3 or Lesson 8 Essay	46.24%	49.13%	4.62%
	US	Midterm Exam Essay Questions (1-41 or 1-42)	59.28%	26.95%	13.77%

POLS 1101 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Develop an awareness of current political issues and the policy-making process, both domestic and global. Demonstrate an understanding of the cause and effect relationships in society. Recognize differing perspectives and points of view. (CT) Demonstrate a knowledge of the historical background, foundations, origins, content, and application of the US Constitution and Bill of Rights. (US)	E.1	Discussion 14 or 15	61.76%	35.88%	2.35%
	E.2	Discussion 6	63.58%	32.10%	4.32%
	E.7	Discussion 13	71.85%	27.41%	0.74%
	US	Discussion 4	66.23%	26.49%	7.28%

PSYC 1101 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Recognize that human experience and behavior vary as a function of context, culture and situation. Identify, understand, and contrast fundamental psychology perspectives within a historical context; past, present, and future trajectory. (CT)	E.3	Discussion 4 or Discussion 12	36.00%	58.00%	6.00%
	E.4	Discussion 1 or Discussion 10	45.95%	40.54%	13.51%

SOCI 1101 Course-Specific Outcome	General Core Outcome	Assessments	Exceeded Expectations Grade = A	Met Expectations Grade = B/C	Below Expectations Grade = D/F
Define, identify, and explain culture, socialization, social interaction, groups, and social organization as basic building blocks of society and social experience, and apply this knowledge to explain why people conform to or deviate from societal expectations. Explain social structure, provide examples of social structure (both at the macro and micro level), and be able to express how important social institutions (such as family, religion, education, medicine, and others) shape society and social experience.	E.3	Lesson 3 Discussion, Lesson 4 Discussion, Lesson 7 Discussion	35.71%	44.64%	19.64%
	E.5	Lesson 10 Discussion	37.84%	45.05%	17.12%