Student Learning Outcomes/Objectives, with Any Associations and Related Measures, Targets, Findings, and Action Plans

**SLO 1: Writing and Reading**
Demonstrate college-level writing and reading skills.

**Related Measures**

**M 1:** Comm M1.1
Measure 1.1: Students will receive a 70% or better score on the Grammar Common Assessment Test by the time they complete either COM (WRT) 1101: Composition & Rhetoric or COM (WRT) 1001: Rhetoric.

**M 2:** Comm M1.2
Measure 1.2: Students will receive a 70% or better score on the Literature Common Assessment Test by the time they complete COM (WRT) 1102: Writing about Literature.

**M 3:** Comm M1.3
Measure 1.3: Students will receive a 70% or better score, using a common scoring rubric, on a final exam essay question used in the COM (WRT) 1102: Writing about Literature course.

**M 4:** Comm M1.4
Measure 1.4: Students will receive a 100% score on an academic plagiarism assessment test by the time they complete the COM 1102: Writing about Literature course.

**M 5:** Comm M1.5
Measure 1.5: Students will receive a 70% or better score on a common assessment final exam question by the time they complete either COM 2223 Science and Technical Communication or COM 2224 Business and Professional Writing.

**SLO 2: Development of Human Civilization**
Demonstrate an understanding of the intellectual and historical changes that have taken place in the development of human civilization. Note 1: Currently, as of Spring 2013, more than 75% of the on-campus students take Western Civilization 2 as the second part of their Core Liberal Arts curriculum. Note 2: All online students will be assessed with Measures 2.1, 2.2, 2.3.1 and 2.3.2 Note 3: All on-campus students will be assessed using Measures 2.1 & 2.3.1. Students will be assessed once using one of the following measures: 2.3.2-2.3.7 as these cover options for the mandatory second HUM core course. Students who opt to take Western Civilization 2 will also be assessed using Measure 2.2

**Related Measures**

**M 6:** Civ Measure 2.1
Measure 2.1: Students will receive a 70% or better score on the Common Assessment Test used in the Western Civilization 1 to 1500 survey course.

**M 7:** Civ Measure 2.2
Measure 2.2: Students will receive a 70% or better score on the Common Assessment Test used in the Western Civilization 2 since 1500 survey course.

**M 8:** Civ Measure 2.3.1
Measure 2.3.1: Students will receive a 70% or better score, using a common scoring rubric, on an embedded final exam essay question used in the Western Civilization 1 to 1500 survey course.

**M 9:** Civ Measure 2.3.2
Measure 2.3.2: Students will receive a 70% or better score, using a common scoring rubric, on an embedded final exam essay question used in the Western Civilization 2 since 1500 survey course.

Connected Document
Assessment Measures for Reading/Writing and Human Civilization Outcomes 1 & 2

M 10: Civ Measure 2.3.3
Measure 2.3.3: Students will receive a 70% or better score, using a common scoring rubric, on an embedded final exam essay question used in the US History 1 survey course.

Connected Document
Assessment Measures for Reading/Writing and Human Civilization Outcomes 1 & 2

M 11: Civ Measure 2.3.4
Measure 2.3.4: Students will receive a 70% or better score, using a common scoring rubric, on an embedded final exam essay question used in the US History 2 survey course.

Connected Document
Assessment Measures for Reading/Writing and Human Civilization Outcomes 1 & 2

M 12: Civ Measure 2.3.5
Measure 2.3.5: Students will receive a 70% or better, using a common scoring rubric, on an embedded final exam essay question used in the American and British Literature 1 survey course.

Connected Document
Assessment Measures for Reading/Writing and Human Civilization Outcomes 1 & 2

M 13: Civ Measure 2.3.6
Measure 2.3.6: Students will receive a 70% or better, using a common scoring rubric, on an embedded final exam essay question used in the American and British Literature 2 survey course.

Connected Document
Assessment Measures for Reading/Writing and Human Civilization Outcomes 1 & 2

M 14: Civ Measure 2.3.7
Measure 2.3.7: Students will receive a 70% or better, using a common scoring rubric, on an embedded final exam essay question used in the World Art 2 survey course.

Connected Document
Assessment Measures for Reading/Writing and Human Civilization Outcomes 1 & 2

SLO 3: College-Level Algebra
Apply college level algebra skills to the solution of mathematical processes.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

Related Measures

M 15: College Algebra M1
Students will attain at least 70% on a multiple choice final exam (from a bank of questions) on the following topics: factoring, radicals, solving equations and inequalities, rational functions, exponential and logarithmic functions.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

M 16: Applied Calculus M1
Students will attain at least 70% on a computer-graded, fill-in-the-blank final exam (from a bank of questions) on the following topics: applying appropriate rules to find and simplify the derivative or antiderivative of a give function (e.g., algebraic, rational, exponential, logarithmic) and applications of derivatives.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

M 19: Applied Calculus & Stats M1
Students will attain at least 70% on a computer-graded, fill-in-the-blank final exam (from a bank of questions) on the following topics: applying appropriate rules to find and simplify the derivative or antiderivative of a given function (e.g., algebraic, rational, exponential, logarithmic), applications of derivatives, and analyzing and solving problems of measures of central tendency and probability and their applications.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

M 23: Calc 1 M1
Students will attain at least 70% on applying appropriate rule(s) (e.g., product, quotient, power, etc.) to find and simplify the derivative of a function (e.g., algebraic, rational, exponential, logarithmic, trigonometric). The embedded final exam question will be graded using a rubric.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

M 24: Calc 1 M2
Students will attain at least 70% on applying appropriate anti-differentiation rule(s) to find and simplify the integral of a function (e.g., algebraic, rational, exponential, logarithmic, trigonometric). The embedded final exam question will be graded using a rubric.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

M 25: Calc 1 M3
Students will attain at least 70% in solving an applied optimization problem. The embedded final exam question will be graded using a rubric.

Connected Document
SLO 4: Statistics and Calculus
Apply statistical skills (including methods of collection, analysis, and interpretation of data) or be able to apply introductory calculus skills to the solution of real world problems.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

Related Measures
M 16: Applied Calculus M1
Students will attain at least 70% on a computer-graded, fill-in-the-blank final exam (from a bank of questions) on the following topics: applying appropriate rules to find and simplify the derivative or antiderivative of a given function (e.g., algebraic, rational, exponential, logarithmic) and applications of derivatives.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

M 19: Applied Calculus & Stats M1
Students will attain at least 70% on a computer-graded, fill-in-the-blank final exam (from a bank of questions) on the following topics: applying appropriate rules to find and simplify the derivative or antiderivative of a given function (e.g., algebraic, rational, exponential, logarithmic), applications of derivatives, and analyzing and solving problems of measures of central tendency and probability and their applications.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

M 23: Calc 1 M1
Students will attain at least 70% on applying appropriate rule(s) (e.g., product, quotient, power, etc.) to find and simplify the derivative of a function (e.g., algebraic, rational, exponential, logarithmic, trigonometric). The embedded final exam question will be graded using a rubric.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

M 24: Calc 1 M2
Students will attain at least 70% on applying appropriate anti-differentiation rule(s) to find and simplify the integral of a function (e.g., algebraic, rational, exponential, logarithmic, trigonometric). The embedded final exam question will be graded using a rubric.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

M 25: Calc 1 M3
Students will attain at least 70% in solving an applied optimization problem. The embedded final exam question will be graded using a rubric.

Connected Document
Mathematics Assessment Outcomes for Measures 3 & 4

SLO 5: Natural Sciences and the Scientific Method
Demonstrate knowledge of the principles of the natural sciences and identify the scientific method of inquiry when applied to the investigation of the natural world.

Related Measures
M 41: Natural Sciences 1 - CHM 1102
This will be measured by embedded questions on the standardized American Chemical Society examination.

M 42: Natural Sciences 2 - Physics 1 Lab
The Physics 1 faculty of the PSS Department have reviewed the SLOs for the Science requirement and have determined that the Force Concept Inventory (FCI) is an example of an appropriate tool for this assessment in our Physics 1 Laboratory courses. The FCI is a national, standardized instrument that we give all Physics 1 Laboratory students in the last week of the course. We will use an examination, such as the FCI, at the end of each semester and section of Physics 1 Lab. This tool assesses students’ understanding of the core principles of Physics 1 and its accompanying lab, with an emphasis on the topic of force. Based on our review of the FCI exam questions, we find that a reasonable threshold for showing minimum competency on this exam is a raw score of 10 out of 30 multiple-choice questions. Since the assessment tool is a multiple-choice exam, a scoring rubric is not required as part of this addendum.

M 43: Natural Sciences 3 - Online
Because the primary evaluations in EDS 1021 and EDS 1022 are accomplished by weekly multiple choice tests across the eight week online term, we will sample five questions from each of the eight weekly tests for a total of 40 questions for each course per term.

M 44: Natural Sciences 4 - EDS 1031/1032
EDS 1031 and 1032 will assess the Natural Sciences outcome through embedded questions on final exams in each course.

SLO 6: Social and Behavioral Sciences
Demonstrate an understanding of the social and behavioral sciences, including interrelationships with other disciplines.

Connected Documents
Social Science Assessment for Outcome 6
Social Science Business Assessment for Outcome 6

Related Measures
M 26: Bus 1801 Global Business M1
Students will receive 70 % or better on embedded questions in a final exam to identify, analyze, and evaluate
functions and operations of business organizations in a global marketplace.

**Connected Document**
Social Science Business Assessment for Outcome 6

**M 27: Bus 1801 Global Business M2**
Students will receive 70% or better on embedded questions in a final exam to identify, analyze, and evaluate the success or failure of a business operating in a global marketplace.

**Connected Document**
Social Science Business Assessment for Outcome 6

**M 29: Bus 2303 Intro Macro M1**
Students will receive 70% or better on embedded questions in a final exam to identify, analyze, and evaluate economy-wide concepts such as price inflation, unemployment, and gross domestic product.

**Connected Document**
Social Science Business Assessment for Outcome 6

**M 30: Bus 2303 Intro Macro M2**
Students will receive 70% or better on embedded questions in a final exam to identify, analyze, and evaluate antecedents to growth involving labor, capital, technology, and savings.

**Connected Document**
Social Science Business Assessment for Outcome 6

**M 33: Social Science M1.1**
Measure 1.1: Students will receive a 70% or better on embedded exam questions, used in all PSY 1411 Introduction to Psychology courses, targeted at identifying the various sub-disciplines in psychology.

**Connected Document**
Social Science Assessment for Outcome 6

**M 34: Social Science M1.2**
Measure 1.2: Students will receive a 70% or better on embedded exam questions, used in all PSY 1411 Introduction to Psychology courses, that focus on important terminology in the following areas: Biology, Learning, Memory, Personality, and Social Psychology

**Connected Document**
Social Science Assessment for Outcome 6

**M 36: Social Science M3.1**
Measure 3.1: Students will receive a 70% or better on embedded exam questions, used in all PSY 1411 Introduction to Psychology courses, that focus on reliability and validity as they apply to social science research.

**Connected Document**
Social Science Assessment for Outcome 6

**M 37: Social Science M3.2**
Measure 3.2: Students will receive a 70% or better on embedded exam questions, used in all PSY 1411 Introduction to Psychology courses, that require the student to differentiate between experimental research and correlational research, and the types of conclusions that can be drawn from each

**Connected Document**
Social Science Assessment for Outcome 6

**SLO 7: Computer Technology and Communication**
Utilize appropriate computer technologies to communicate effectively within both university and global communities.

**Connected Document**
Assessment Measures for Computing Outcome 7

**Related Measures**

**M 45: On-campus Technology**
On-campus students will be assessed on knowledge and usage of campus technology resources such as e-mail, university computing services, and the campus Acceptable Use Policy.

**M 46: ELP Discussion Board**
Students will complete discussion board exercise.

**M 47: Drop Box Essay**
Students completing ASC1006 will demonstrate their ability to use the drop box by uploading an assignment.

**M 48: Library Embedded Question**
Students completing ASC1006 will correctly answer an embedded library quiz question about utilizing resources available: 1.3 - Library Embedded Questions Q: If you have tried the Library databases and other related resources and are still unable to find the needed information, what is another way to find the information? A: (C) Request help from a librarian using Ask A Librarian