COURSE SLO ASSESSMENT 4-YEAR TIMELINE REPORT (ECC)

MATHEMATICAL SCIENCES DIVISION - MATH (G.E. AND NON-SCIENCE MAJORS)

Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
2013-14 (Spring 2014)	ECC: MATH 120	Nature of Mathematics	SLO #3 Analyze Voting System	Analyze voting systems, methods of apportionment and representation to further the understanding of the political process.
2013-14 (Spring 2014)	ECC: MATH 130	College Algebra	SLO #3 Solve Problems Using Sequences and Series	Solve problems using sequences, series, permutations, and combinations.
2013-14 (Spring 2014)	ECC: MATH 140	Finite Mathematics for Business and Social Sciences	SLO #3 Use of Geometrical Approach	Solve linear programming problems using the geometrical approach.
2013-14 (Spring 2014)	ECC: MATH 150	Elementary Statistcs with Probability	SLO #3 Central Limit Theorem	Use the Central Limit Theorem to compute probabilities concerning the distribution of the sample means and comparing these to the probabilities of the related random variable.
2013-14 (Spring 2014)	ECC: MATH 160	Calculus I for Biological, Management and Social Sciences	SLO #3 Area Problems	Solve area problems using integral calculus.
2013-14 (Spring 2014)	ECC: MATH 161	Calculus II for Biological, Management and Social Sciences	SLO #3 Convergence and Divergence of Series	Determine convergence and divergence of infinite series.
2014-15 (Spring 2015)	ECC: MATH 120	Nature of Mathematics	SLO #4 Solve Application Problems	Solve application problems using basic counting principles, permutations, combinations, probability, expected value and frequency distribution.
2014-15 (Spring 2015)	ECC: MATH 130	College Algebra	SLO #4 Solve Application Problems	Solve college algebra level application problems and use technology.
2014-15 (Spring 2015)	ECC: MATH 140	Finite Mathematics for Business and Social Sciences	SLO #4 Use of Finite Mathematics Techniques	Solve application problems using finite mathematics techniques
2014-15 (Spring 2015)	ECC: MATH 150	Elementary Statistcs with Probability	SLO #4 Confidence Intervals and Hypothesis Testing	Compute the confidence intervals and conduct hypothesis testing for a variety of parameters, and perform non-parametric hypothesis testing.
2014-15 (Spring 2015)	ECC: MATH 160	Calculus I for Biological, Management and Social Sciences	SLO #4 Using Calculus, Solve Application Problems	Solve calculus-level application problems and use technology.
2014-15 (Spring 2015)	ECC: MATH 161	Calculus II for Biological, Management and Social Sciences	SLO #4 Solve Application Problems Using Calculus	Use single-variable and double-variable integral calculus methods to solve application problems from relevant disciplines, including economics.
2015-16 (Spring 2016)	ECC: MATH 120	Nature of Mathematics	SLO #1 Solve Loan Problems	Apply techniques of simple and compound interest to solve loan and annuity problems.
2015-16 (Spring 2016)	ECC: MATH 130	College Algebra	SLO #1 Solve Nonlinear Inequalities	Solve nonlinear inequalities and a variety of equations such as: polynomial, rational, radical, exponential, and logarithmic.
2015-16 (Spring 2016)	ECC: MATH 140	Finite Mathematics for Business and Social Sciences	SLO #1 Use of Gauss-Jordan	Use the Gauss-Jordan technique to solve systems of linear equations.
2015-16 (Spring	ECC: MATH 150	Elementary Statistcs with	SLO #1 Computing and	From data or bivariate data, compute statistics and develop displays

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2016)		Probability	Interpreting Various Measures	of the data that illustrate the measures of central tendency, variation, relative position, and correlation. Interpret the displays in context.
2015-16 (Spring 2016)	ECC: MATH 160	Calculus I for Biological, Management and Social Sciences	SLO #1 Determine and Interpret Limits	Determine limits, classify types of continuity of functions, and determine first and second derivatives of functions.
2015-16 (Spring 2016)	ECC: MATH 161	Calculus II for Biological, Management and Social Sciences	SLO #1 Compute and Interpret Integrals	Find integrals using a variety of methods, including: substitution, parts, and partial fractions.
2016-17 (Spring 2017)	ECC: MATH 120	Nature of Mathematics	SLO #2 Solve Application Problems Using Graphical Methods	Solve application problems using graphical methods such as: 3-ring Venn diagrams, truth tables, Euclidean, Riemannian and Lobachevskian geometries.
2016-17 (Spring 2017)	ECC: MATH 130	College Algebra	SLO #2 Solve Problems using Graphical Methods	Solve problems using graphical methods involving a variety of functions, such as: polynomial, rational, radical, exponential, and logarithmic.
2016-17 (Spring 2017)	ECC: MATH 140	Finite Mathematics for Business and Social Sciences	SLO #2 Use of Matrices	Solve problems using matrices.
2016-17 (Spring 2017)	ECC: MATH 150	Elementary Statistcs with Probability	SLO #2 Probability	Compute probability of an event by applying the basic assumption in classical probability and using addition rule and multiplication rule for contingency tables.
2016-17 (Spring 2017)	ECC: MATH 160	Calculus I for Biological, Management and Social Sciences	SLO #2 Sketch graphs of functions	Identify the intercepts, relative extrema, inflection points, and concavity, and use this information to sketch graphs of functions.
2016-17 (Spring 2017)	ECC: MATH 161	Calculus II for Biological, Management and Social Sciences	SLO #2 Compute and Interpret Derivatives	Compute and interpret partial derivatives and apply these skills to application problems.