DEPARTMENT OF MATHEMATICS MATHEMATICS MAJOR EFFECTIVENESS PROGRAM 2014-2015

1. Students will demonstrate a conceptual understanding of limit, continuity, and differentiation, and acquire a thorough background in techniques and application of calculus. (Calculus, NCTM 12). 2. Students will demonstrate the ability to recease construct and evaluate.	Students will score at or above the 50th percentile on the calculus section of the ETS Major Field Test (MFT). Students will average at least 50% on the section on functions and calculus on the Praxis II mathematics content exam.		
3	2		
mathematical arguments and develop an appreciation for mathematical rigor and inquiry. (Reasoning and proof, NCTM 2)	2. As measured by the assessment rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale.		
3. Students will demonstrate an understanding of relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change. (Algebra, NCTM 10)	 3a. Students will score at or above the 50th percentile on the algebra section of the Major Field Test. 3b. Students will average at least 50% on the algebra section of the Praxis II mathematics content exam. 		
4. Students will demonstrate the ability to use spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and their properties. (Geometry, NCTM 11)	 4a. Students will average at least 50% on the section on geometry and trigonometry on the Praxis II mathematics content exam. 4b. As measured by the assessment rubric for MAT 436, the average score of math majors in each category will be at least 3 on the 4 point scale. 		
5. Students will demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability. (Statistics & probability, NCTM 14)	 5a. Students will average at least 50% on the section on data analysis and statistics on the Praxis II mathematics content exam. 5b. As measured by the assessment rubric for MAT 337, the average score of math majors on each category will be 		
maapinoonaa aa	ason, construct, and evaluate athematical arguments and develop an appreciation for mathematical rigor and quiry. (Reasoning and proof, NCTM 2) Students will demonstrate an adderstanding of relationships among antities including functions, ways of presenting mathematical relationships, defined the analysis of change. (Algebra, CTM 10) Students will demonstrate the ability to be spatial visualization and geometric odeling to explore and analyze sometric shapes, structures, and their operties. (Geometry, NCTM 11) Students will demonstrate an adderstanding of concepts and practices lated to data analysis, statistics, and obability. (Statistics & probability,	rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale. Students will demonstrate an iderstanding of relationships among tantities including functions, ways of presenting mathematical relationships, dit the analysis of change. (Algebra, CTM 10) Students will demonstrate the ability to e spatial visualization and geometric odeling to explore and analyze ometric shapes, structures, and their operties. (Geometry, NCTM 11) Students will demonstrate an iderstanding of concepts and practices lated to data analysis, statistics, and obability. (Statistics & probability, CTM 14) rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale. 3a. Students will score at or above the 50th percentile on the algebra section of the Major Field Test. 3b. Students will average at least 50% on the section on geometry and trigonometry on the Praxis II mathematics content exam. 4a. Students will average at least 50% on the section on geometry and trigonometry on the Praxis II mathematics content exam. 4b. As measured by the assessment rubric for MAT 436, the average score of math majors in each category will be at least 3 on the 4 point scale. 5a. Students will average at least 50% on the section on data analysis and statistics on the Praxis II mathematics content exam.	rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale. Students will demonstrate an derstanding of relationships, and the analysis of change. (Algebra, CTM 10) Students will demonstrate the ability to e spatial visualization and geometric odeling to explore and analyze ometric shapes, structures, and their operties. (Geometry, NCTM 11) Students will demonstrate an derstanding of concepts and practices lated to data analysis, statistics, and obability. (Statistics & probability, CTM 14) rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale. 3a. Students will score at or above the deast 3 on the algebra section of the Major Field Test. 3b. Students will average at least 50% on the section on geometry and trigonometry on the Praxis II mathematics content exam. 4b. As measured by the assessment rubric for MAT 436, the average score of math majors in each category will be at least 3 on the 4 point scale.

DEPARTMENT OF MATHEMATICS MATHEMATICS MAJOR EFFECTIVENESS PROGRAM 2013-2014

EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE	STUDENT LEARNING OUTCOMES	ASSESSMENT CRITERIA AND PROCEDURES	AS	SSESSMENT RESULTS	USE OF RESULTS
University Mission: As a Christian university which embraces its Baptist heritage and namesake, William Carey University provides quality educational programs, within a caring Christian academic community, which challenge the individual student to excel in scholarship, leadership, and service in a diverse global society.	Students will demonstrate a conceptual understanding of limit, continuity, and differentiation, and acquire a thorough background in techniques and application of calculus. (Calculus, NCTM 12).	1a. Students will score at or above the 50th percentile on the calculus section of the ETS Major Field Test (MFT). 1b. Students will average at least 50% on the section on functions and calculus on the Praxis II mathematics content exam.	1.	Five students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS.	Data will be used to inform instruction.
Expanded Statement of Purpose: 1. Attain excellence in academic programs to promote student learning	2. Students will demonstrate the ability to reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry. (Reasoning and proof, NCTM 2)	2. As measured by the assessment rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale.	2.	Five students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS	2. Results will be used to inform instruction.
2. Promote Christian development and social responsibility 3. Strengthen ties with Baptist churches, associations, and conventions 4. Provide an environment that supports student learning 5. Strengthen organizational and operational effectiveness 6. Strengthen financial resources	3. Students will demonstrate an understanding of relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change. (Algebra, NCTM 10)	3a. Students will score at or above the 50 th percentile on the algebra section of the Major Field Test. 3b. Students will average at least 50% on the algebra section of the Praxis II mathematics content exam.	3.	Five students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS.	3. Students will be encouraged to take MFT earlier in their senior year.
Program/Unit Goal: The purpose of the program for mathematics majors is to provide instruction in a Christian environment that will enable students to develop an insight into mathematics theory and an understanding of the applications of mathematics and that will prepare students to pursue advanced study or a career in a mathematics related field.	4. Students will demonstrate the ability to use spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and their properties. (Geometry, NCTM 11)	4a. Students will average at least 50% on the section on geometry and trigonometry on the Praxis II mathematics content exam. 4b. As measured by the assessment rubric for MAT 436, the average score of math majors in each category will be at least 3 on the 4 point scale.		The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors for items on a similar assessment rubric created by the current professor.	4. A generic assessment rubric for learner outcomes for this course is in the process of being created and communicated to all regular and adjunct faculty.
	5. Students will demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability. (Statistics & probability, NCTM 14).	5a. Students will average at least 50% on the section on data analysis and statistics on the Praxis II mathematics content exam. 5b. As measured by the assessment rubric for MAT 337, the average score of math majors on each category will be at least 3 on the 4 point scale.	5.	The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors on those items that were included on a similar assessment rubric created by the current professor.	5. A generic assessment rubric for learner outcomes for this course is in the process of being created and communicated to all regular and adjunct faculty.

DEPARTMENT OF MATHEMATICS MATHEMATICS MAJOR EFFECTIVENESS PROGRAM 2012-2013

EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE	STUDENT LEARNING OUTCOMES	ASSESSMENT CRITERIA AND PROCEDURES	ASSESSMENT RESULTS	USE OF RESULTS
University Mission: As a Christian university which embraces its Baptist heritage and namesake, William Carey University provides quality educational programs, within a caring Christian academic community, which challenge the individual student to excel in scholarship, leadership, and service in a diverse global society.	Students will demonstrate a conceptual understanding of limit, continuity, and differentiation, and acquire a thorough background in techniques and application of calculus. (Calculus, NCTM 12).	Students will score at or above the 50th percentile on the calculus section of the ETS Major Field Test (MFT). Students will average at least 50% on the section on functions and calculus on the Praxis II mathematics content exam.	Nine students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS.	Data will be used to inform instruction.
Expanded Statement of Purpose: 1. Attain excellence in academic programs to prompte student learning	2. Students will demonstrate the ability to reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry. (Reasoning and proof, NCTM 2)	2. As measured by the assessment rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale.	No students enrolled in MAT 335 during this time period.	2. No action required.
to promote student learning 2. Promote Christian development and social responsibility 3. Strengthen ties with Baptist churches, associations, and conventions 4. Provide an environment that supports student learning 5. Strengthen organizational and operational effectiveness 6. Strengthen financial resources	3. Students will demonstrate an understanding of relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change. (Algebra, NCTM 10)	 3a. Students will score at or above the 50th percentile on the algebra section of the Major Field Test. 3b. Students will average at least 50% on the algebra section of the Praxis II mathematics content exam. 	 Nine students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS. 	3. Students will be encouraged to take MFT earlier in their senior year.
Program/Unit Goal: The purpose of the program for mathematics majors is to provide instruction in a Christian environment that will enable students to develop an insight into mathematics theory and an understanding of the applications of mathematics and that will prepare students to pursue advanced study or a career in a mathematics related field.	4. Students will demonstrate the ability to use spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and their properties. (Geometry, NCTM 11)	 4a. Students will average at least 50% on the section on geometry and trigonometry on the Praxis II mathematics content exam. 4b. As measured by the assessment rubric for MAT 436, the average score of math majors in each category will be at least 3 on the 4 point scale. 	4. The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors for items on a similar assessment rubric created by the current professor.	A generic assessment rubric for learner outcomes for this course is being created and will be communicated to all regular and adjunct faculty.
	5. Students will demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability. (Statistics & probability, NCTM 14)	5a. Students will average at least 50% on the section on data analysis and statistics on the Praxis II mathematics content exam. 5b. As measured by the assessment rubric for MAT 337, the average score of math majors on each category will be at least 3 on the 4 point scale.	5. The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors on those items that were included on a similar assessment rubric created by the current professor	5. A generic assessment rubric for learner outcomes for this course will be created and communicated to all regular and adjunct faculty.

DEPARTMENT OF MATHEMATICS MATHEMATICS MAJOR EFFECTIVENESS PROGRAM 2011-2012

EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE	STUDENT LEARNING OUTCOMES	ASSESSMENT CRITERIA AND PROCEDURES	ASSESSMENT RESULTS	USE OF RESULTS
University Mission: As a Christian university which embraces its Baptist heritage and namesake, William Carey University provides quality educational programs, within a caring Christian academic community, which challenge the individual student to excel in scholarship, leadership, and service in a diverse global society.	Students will demonstrate a conceptual understanding of limit, continuity, and differentiation, and acquire a thorough background in techniques and application of calculus. (Calculus, NCTM 12).	1a. Students will score at or above the 50th percentile on the calculus section of the ETS Major Field Test (MFT). 1b. Students will average at least 50% on the section on functions and calculus on the Praxis II mathematics content exam.	Sixty seven percent of the students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS.	Results of the test will be used to improve instructional effectiveness.
Expanded Statement of Purpose: 1. Attain excellence in academic programs to promote student learning	2. Students will demonstrate the ability to reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry. (Reasoning and proof, NCTM 2)	2. As measured by the assessment rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale.	 No students enrolled in MAT 335 during this time period. 	2. No action taken
Promote Christian development and social responsibility Strengthen ties with Baptist churches, associations, and conventions Provide an environment that supports student learning Strengthen organizational and	3. Students will demonstrate an understanding of relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change. (Algebra, NCTM 10)	 3a. Students will score at or above the 50th percentile on the algebra section of the Major Field Test. 3b. Students will average at least 50% on the algebra section of the Praxis II mathematics content exam. 	3. Sixty-seven percent of the students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS.	3. When received, analysis will be used to create effective instruction.
Program/Unit Goal: The purpose of the program for mathematics majors is to provide instruction in a Christian environment that will enable students to develop an insight into mathematics theory and an understanding of the applications of mathematics and that will prepare students to pursue advanced study or a career in a mathematics related field.	4. Students will demonstrate the ability to use spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and their properties. (Geometry, NCTM 11)	4a. Students will average at least 50% on the section on geometry and trigonometry on the Praxis II mathematics content exam. 4b. As measured by the assessment rubric for MAT 436, the average score of math majors in each category will be at least 3 on the 4 point scale.	4. The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors for items on a similar assessment rubric created by the current professor.	A generic assessment rubric for learner outcomes for this course needs to be created and communicated to all regular and adjunct faculty.
	5. Students will demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability. (Statistics & probability, NCTM 14)	5a. Students will average at least 50% on the section on data analysis and statistics on the Praxis II mathematics content exam. 5b. As measured by the assessment rubric for MAT 337, the average score of math majors on each category will be at least 3 on the 4 point scale.	5. The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors on those items that were included on a similar assessment rubric created by the current professor	5. A generic assessment rubric for learner outcomes for this course needs to be created and communicated to all regular and adjunct faculty.

DEPARTMENT OF MATHEMATICS MATHEMATICS MAJOR EFFECTIVENESS PROGRAM 2010-2011

EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE	STUDENT LEARNING OUTCOMES	ASSESSMENT CRITERIA AND PROCEDURES	ASSESSMENT RESULTS	USE OF RESULTS
University Mission: As a Christian university which embraces its Baptist heritage and namesake, William Carey University provides quality educational programs, within a caring Christian academic community, which challenge the individual student to excel in scholarship, leadership, and service in a diverse global society.	Students will demonstrate a conceptual understanding of limit, continuity, and differentiation, and acquire a thorough background in techniques and application of calculus. (Calculus, NCTM 12).	1a. Students will score at or above the 50 th percentile on the calculus section of the ETS Major Field Test (MFT). 1b. Students will average at least 50% on the section on functions and calculus on the Praxis II mathematics content exam.	Two students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS.	Results will be used to revise course material.
Expanded Statement of Purpose: 1. Attain excellence in academic programs to promote student learning 2. Promote Christian development and social responsibility 3. Strengthen ties with Baptist churches, associations, and conventions 4. Provide an environment that supports student learning 5. Strengthen organizational and operational effectiveness 6. Strengthen financial resources	Students will demonstrate the ability to reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry. (Reasoning and proof, NCTM 2) Students will demonstrate an understanding of relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change. (Algebra, NCTM 10)	2. As measured by the assessment rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale. 3a. Students will score at or above the 50th percentile on the algebra section of the Major Field Test. 3b. Students will average at least 50% on the algebra section of the Praxis II mathematics content exam.	No students enrolled in MAT 335 during this time period. Two students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS.	No action taken Data analysis will be used to revise course material.
Program/Unit Goal: The purpose of the program for mathematics majors is to provide instruction in a Christian environment that will enable students to develop an insight into mathematics theory and an understanding of the applications of mathematics and that will prepare students to pursue advanced study or a career in a mathematics related field.	4. Students will demonstrate the ability to use spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and their properties. (Geometry, NCTM 11)	4a. Students will average at least 50% on the section on geometry and trigonometry on the Praxis II mathematics content exam. 4b. As measured by the assessment rubric for MAT 436, the average score of math majors in each category will be at least 3 on the 4 point scale.	4b. The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors for items on a similar assessment rubric created by the current professor.	4b. A generic assessment rubric for learner outcomes for this course will be created and communicated to all regular and adjunct faculty.
	5. Students will demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability. (Statistics & probability, NCTM 14)	5a. Students will average at least 50% on the section on data analysis and statistics on the Praxis II mathematics content exam. 5b. As measured by the assessment rubric for MAT 337, the average score of math majors on each category will be at least 3 on the 4 point scale.	5b. The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors on those items that were included on a similar assessment rubric created by the current professor	5b. A generic assessment rubric for learner outcomes for this course will be created and communicated to all regular and adjunct faculty.

DEPARTMENT OF MATHEMATICS MATHEMATICS MAJOR EFFECTIVENESS PROGRAM 2009-2010

EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE	STUDENT LEARNING OUTCOMES	ASSESSMENT CRITERIA AND PROCEDURES	A	SSESSMENT RESULTS	USE OF RESULTS
University Mission: The mission of William Carey University is to provide quality liberal arts and professional education programs within a caring Christian academic community. The individual student is encouraged to develop his or her highest potential in scholarship, leadership, and service. The University collaborates with churches, organizations, and individuals to	Students will demonstrate a conceptual understanding of limit, continuity, and differentiation, and acquire a thorough background in techniques and application of calculus. (Calculus, NCTM 12).	1a. Students will score at or above the 50 th percentile on the calculus section of the ETS Major Field Test (MFT). 1b. Students will average at least 50% on the section on functions and calculus on the Praxis II mathematics content exam.	1,	Only two students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS.	Data will be used to inform instruction.
affirm its Baptist heritage and namesake – William Carey. Expanded Statement of Purpose: 1. Attain excellence in academic programs	2. Students will demonstrate the ability to reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry. (Reasoning and proof, NCTM 2)	2. As measured by the assessment rubric for MAT 335, the average score of math majors on each category of the relevant learning objectives will be at least 3 on the 4 point scale.	2.	No students enrolled in MAT 335 during this time period.	2. No action required.
to promote student learning 2. Promote Christian development and social responsibility 3. Strengthen ties with Baptist churches, associations, and conventions 4. Provide an environment that supports student learning 5. Strengthen organizational and operational effectiveness 6. Strengthen financial resources	3. Students will demonstrate an understanding of relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change. (Algebra, NCTM 10)	3a. Students will score at or above the 50th percentile on the algebra section of the Major Field Test. 3b. Students will average at least 50% on the algebra section of the Praxis II mathematics content exam.	3.	Only two students took the Major Field Test (MFT). Data analysis from these tests was not received from ETS.	3. Students will be encouraged to take MFT earlier.
Program/Unit Goal: The purpose of the program for mathematics majors is to provide instruction in a Christian environment that will enable students to develop an insight into mathematics theory and an understanding of the applications of mathematics and that will prepare students to pursue advanced study or a career in a mathematics related field.	4. Students will demonstrate the ability to use spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and their properties. (Geometry, NCTM 11)	4a. Students will average at least 50% on the section on geometry and trigonometry on the Praxis II mathematics content exam. 4b. As measured by the assessment rubric for MAT 436, the average score of math majors in each category will be at least 3 on the 4 point scale.	4.	The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors for items on a similar assessment rubric created by the current professor.	A generic assessment rubric for learner outcomes for this course needs to be created and communicated to all regular and adjunct faculty.
	5. Students will demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability. (Statistics & probability, NCTM 14)	5a. Students will average at least 50% on the section on data analysis and statistics on the Praxis II mathematics content exam. 5b. As measured by the assessment rubric for MAT 337, the average score of math majors on each category will be at least 3 on the 4 point scale.	5.	The assessment rubric referred to in this item was not left by the previous evaluator. However, the goal was met for the average score of math majors on those items that were included on a similar assessment rubric created by the current professor	5. A generic assessment rubric for learner outcomes for this course needs to be created and communicated to all regular and adjunct faculty.