### MACU School of Math & Sciences

Mathematics, B.S.

Program Review

2018

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Mathematics B.S., Program Review, Section 1

Chair's Summary Statement about the State of the Program

#### Mid-America Christian University

#### **Mathematics Program**

#### Chair's Summary Statement about the State of the Program

Mid-America Christian University (MACU) is a faith-based institution of approximately 400 traditional undergraduate students which embraces the Church of God of Indiana tradition of scholarship and service. A primary goal of MACU is the delivery of a strong liberal arts curriculum with an emphasis on quality teaching. MACU awards the Bachelor of Science degrees in the mathematics program: Mathematics, Mathematics Multidisciplinary and Secondary Mathematics Education. The university is accredited by the Higher Learning Commission of North central Association of Colleges and Schools. The Secondary Mathematics Education program was recently reviewed in 2017 by the Office of Educational Quality and Accountability (OEQA) and was met with a few conditions. This program aligns with the standards of the National Council of Teachers of Mathematics.

Mathematics majors are required to take 51 hours of mathematics coursework, 46 hours in general education and 27 elective hours to allow those students with interests in medicine, engineering, physics, etc to complete those hours that will further their vocation of their choosing. Mathematics Multidisciplinary majors are required to take 32 hours of applied mathematics coursework, 30 hours in another multidisciplinary second option as well as 46 hours of general education courses. Secondary Mathematics Education majors are required to take 41 hours of mathematics coursework, 33 hours of professional education courses and 46 hours of general education courses.

Attendance in the program fluctuates greatly, but there is a steady graduation rate with students finding great jobs and using their degree upon graduation.

All 3 mathematics majors	enrolled	graduates
2015-16	18	6
2016-17	20	3
2017-18	17	3

Of the 6 graduates in 2015-16, 4 are teaching secondary mathematics, one was accepted into graduated graduate school and graduated a year and a half later with his MBA. One student was accepted into Oklahoma City Community College's (OCCC) Baccalaureate to Associate Degree Nurse Accelerated Pathway (BADNAP) program. One of the math graduates was MACU's valedictorian and another was the salutatorian.

Of the 3 graduates in 2016-17, 1 is working as a civilian in the U.S. Navy as an engineer, one was accepted into Oklahoma City Community College's (OCCC) Baccalaureate to Associate Degree Nurse Accelerated Pathway (BADNAP) program, and one is back in his country of origin, Brazil, and has started his own successful business.

Of the 3 graduates in 2017-18, 1 is pursuing acceptance into graduate school and a position in data analytics, one is pursuing a teaching career, and the other is finishing courses to receive his certification in architecture.

Program Outcomes 1 Knowledge of Problem Solving, Program Outcome 2 Knowledge of Reasoning and Proof, Program Outcome 3 Knowledge of Technology, Program Outcome 5 Knowledge of Different Perspectives on Algebra, and Program Outcome 6 Knowledge of Geometries were assessed in Fall 2016

and Spring 2017. Program Outcomes 4 Knowledge of Number and Operation, Program Outcome 7 Knowledge of Calculus, Program Outcome 8 Knowledge of Discrete Mathematics, and Program Outcome 9 Knowledge of Data Analysis, Statistics, and Probability were assessed in Fall 2015, Spring 2016, Fall 2017, and Spring 2018.

Mathematics B.S., Program Review, Section 2

Program Sheet from Catalog

2

### Mathematics, B.S. Effective: 08/01/2017

The B.S. in Mathematics provides a comprehensive understanding of the nature of mathematics and its relation to the sciences, philosophy and other liberal arts. In addition to general education and Bible coursework, course topics include geometry, calculus, linear algebra, abstract algebra, statistics, differential equations and mathematical modeling to provide a foundation on which graduates may begin a career in teaching, applied mathematics and research or pursue graduate studies.

#### University Core Specific courses within the University Core are listed on the first page of this catalog section.

#### **University Core (46 Hrs)**

Bible/Theology (12 hrs)
Communication (9 hrs)
U.S. History and Government (6 hrs)
Science (6 hrs plus 1 hr of lab)
Math (3 hrs):

\*MATH 1513 College Algebra Social Sciences (3 hrs) Humanities (6 hrs – 3 hrs must be literature)

#### Orientation Requirement Orientation (1Hr) UNIV 1121 First Year Evangel

Major Requirements
Mathematics Core (29 Hrs)

MATH 2114 Calculus I and Analytic Geometry
MATH 2214 Calculus II

MATH 2313 Calculus III
MATH 3103 Linear Algebra
MATH 3403 Discrete Math

MATH 3703 Introduction to Statistics
MATH 4203 Mathematical Statistics
MISE 4103 Programming Concepts OR

MISE 4603 Languages

MATH 4113 Mathematical Modeling

#### **Mathematics Theory Application (22)**

MATH	1303	Plane Trigonometry
MATH	3303	History of Math
MATH	4003	College Geometry I
MATH	4013	Differential Equations
MATH	4103	Abstract Algebra
MATH	4303	College Geometry II
PHYS	2104	Physics I

#### Electives (24 Hrs)

Any Electives (24 Hrs). At least seven (7 Hrs) should be from upper division.

A student must have a minimum of 40 hours of 3000 and 4000 level courses in order to receive a Bachelor degree. Please note: This may require the student to take upper division elective hours in order to meet this graduation requirement.

Students may choose to replace combination of 30-39 courses in the Mathematics Theory Application courses and/or electives with a Multidisciplinary option (See Multidisciplinary options in the Academic Program Requirements section). Substitutions in math core may be made per advisor approval.

Total University Core	46
Total Orientation	1
Total Mathematics Core	29
Total Math Theory Application	22
Electives	24
Total Required Hours	122

<sup>\*</sup>These courses are required pre-requisites for the major and/or discipline. Upon completion of the above courses, corresponding University Core requirements will be satisfied. (These courses are required for this major regardless of previous degrees conferred). See the Academic Program Requirements section of this Catalog for additional requirements.

#### **Multidisciplinary Options**

#### **Multidisciplinary Options**

Multidisciplinary options allow a unique opportunity for students interested in more than one academic discipline to choose a primary program and a secondary discipline of study. The courses required in the secondary discipline will be taken in lieu of the primary program's electives. At the time the student designates the primary and secondary multidisciplinary course of study, they must be approved by the chairpersons of the two academic disciplines.

- When a Multidisciplinary course of study is requested, it must be approved by both chairpersons of each discipline.
- Additional electives may be required to meet the minimum degree requirements
- Degree Programs Multidisciplinary options are available with the degree programs listed below:
  - o Biology
  - o Ministry Leadership
  - o Business Administration and Ethics
  - o English
  - o Mathematics
  - o Psychology

#### One of the following Multidisciplinary focus areas may be added to any one of the above listed Degree Programs

discipline.

Biology (34-37 Hrs)	Organismal (34-35 Hrs)
Choose one focus area: Cellular, Human, or Organismal	BIOL 1214 Biology I
Cellular (37 Hrs)	BIOL 1314 Biology II
BIOL 1214 Biology I	CHEM 1105 Chemistry I
BIOL 1314 Biology II	CHEM 1205 Chemistry II
BIOL 3305 Microbiology	BIOL 3214 Human Physiology
CHEM 1105 Chemistry I	BIOL 4144 Plant Taxonomy
CHEM 1205 Chemistry II	BIOL 4501 Biology Research
CHEM 2105 Organic Chemistry I	Organismal Options
BIOL 3334 Cell Biology	BIOL 2114 General Zoology or
BIOL 3354 Genetics	BIOL 2214 General Botany
BIOL 4501 Biology Research	and
	BIOL 3363 Evolution or
Human (36 Hrs)	BIOL 3404 Ecology
DIOI 1014 D' 1 I	<b></b>

BIOL 1214 Biology I BIOL 1314 Biology II BIOL 3305 Microbiology CHEM 1105 Chemistry I CHEM 1205 Chemistry II BIOL 4124 Histology BIOL 4501 Biology Research

#### **Anatomy Options**

BIOL 2314 Anatomy and Physiology I <u>and</u> BIOL 2324 Anatomy and Physiology II <u>or</u> BIOL 3114 Human Anatomy <u>and</u> BIOL 3214 Human Physiology Business Administration and Ethics (30 Hrs)
BUAD 2103 Principles of Accounting I
BUAD 2203 Principles of Accounting II
BUAD 2503 Business and Professional Communication
BUAD 3403 Business Finance
BUAD 4303 Human Resource Administration
ECON 2503 Survey of Economics, Principles,
Applications and Tools
MGMT 3213 Applied Business Management
MKTG 3103 Principles of Marketing
Select 6 additional hours from other courses within the

Mid-Am	erica C	Christian University Catalog 2018-2019
N/:!-4	7	ambin (22 II)
1/2		ership (33 Hrs)
BUAD	4203	Nonprofit/American Church Law
PMIN	1103	Foundations of Ministry
<b>PMIN</b>	1203	
<b>PMIN</b>	3103	Homiletics I
<b>PMIN</b>	3123	Evangelism and Discipleship
<b>PMIN</b>	3713	Workshop in the Ordinances
<b>PMIN</b>	4303	Leadership Formation
THEO	2103	Systematic Theology I
THEO	2203	Systematic Theology II
Select 3	additio	onal hours of Inductive Bible Study
Courses		
BINT	3103	The Synoptic Gospels
BINT	3603	
BINT	3633	Pastoral Letters
Select 3	additio	nal hours from Applied Learning
Courses		
<b>PMIN</b>	3133	Introduction to Spiritual Direction
<b>PMIN</b>	3643	Stephen Ministry
<b>PMIN</b>	4113	Internship in Professional Ministry
<b>PMIN</b>	4893	Practicum in Pastoral Care I
<b>PMIN</b>	4983	Practicum in Pastoral Care II
English	(30 Hr	<u>(s)</u>
		reative Writing
		dvanced Composition

ENGL 3503 Advanced Composition

ENGL 4203 Modern Grammar

ENGL 4303 Shakespeare

ENGL 4503 History of English Language

ENGL 4533 Crit. Approach to Literature

Select 12 additional hours from other courses within the discipline:

ENGL 2103 British Literature Survey I

ENGL 2203 British Literature Survey II

ENGL 2303 World Lit Sur: Ancient World-Renaissance

ENGL 2403 World Lit Sur: Renaissance-Modern Era

ENGL 2503 Amer Lit Sur: Before 1865 ENGL 2603 Amer Lit Sur: Since 1865

#### Mathematics (32 Hrs)

MATH 2114	Calculus I and Analytic Geometry
MATH 2214	Calculus II
MATH 2313	Calculus III
MATH 3103	Linear Algebra
MATH 3403	Discrete Math
MATH 4203	Mathematical Statistics
Select 9 addition	nal hours from other courses within the
discipline.	
	MICE (SII ) E . CI

Select 3 hours from MISE (3 Hrs) Evening Classes:

4103 **Programming Concepts** MISE

MISE 4603 Languages

#### Music (35 Hrs)

MUSI	2102	Music Theory I
MUSI	2101	Aural Skills I
MUSI	2202	Music Theory II
MUSI	2201	Aural Skills II
MUSI	3152	Conducting
MUSI	3602	Singing Diction
MUSI	4212	History and Literature of Music I
MUSI	4223	History and Literature of Music II
MUSI	4602	Hymnology/Music Text
MUSI	4242	Music Ministry
<b>PMIN</b>	3303	Christian Worship
Major	Freembl	a (A Hrs)

#### Major Ensemble (4 Hrs)

AMUE 1311-3361 Major Ensemble

Piano (4 Hrs)

AMUS 1111-3151 Piano

Voice (4 Hrs)

AMUS 1111-3151 Voice

#### Music Endorsement Only:

- 1. Students must pass a piano proficiency exam.
- 2. Music majors must attend 6 recitals each semester.

#### Psychology (30 Hrs)

<b>PSYC</b>	3303	Development Across the Lifespan
<b>PSYC</b>	3113	History and Systems of Psychology
<b>PSYC</b>	3703	Introduction to Statistics
<b>PSYC</b>	3803	Introduction to Research Methods
<b>PSYC</b>	3903	Stress Management
<b>PSYC</b>	4703	Abnormal Psychology
<b>PSYC</b>	4803	Personality Theory and Development
<b>PSYC</b>	4813	Professional Ethics and Conduct
Select 6	addition	nal hours from within the Psychology
disciplin	ne.	

#### Secondary Education, B.A.

Effective: 08/01/2017

Designed to align with rigorous standards set forth by Specialized Professional Associations (SPA) standards, the B.A. in Secondary Education equips those called to teach secondary education in the student's chosen area of specialization of either, English, Math, or Social Studies in public or private school settings. Students will gain theoretical knowledge and practical methodologies for successfully teaching to this age group as they prepare for a future beyond high school. Through experiential learning, students will gain hands-on experience so they may become effective teachers in the classroom. In addition to covering the subjects of child/adolescent and educational psychology, instructional technology, instructional strategies, and exceptional children, the program also includes: English - English teaching methods, literature, composition, creative writing, modern grammar, language and culture, and critical approach to literature; Math - secondary math methods, calculus, algebra, statistics, discrete math, and the history of math; or Social Studies - social studies teaching methods, world geography, U.S. history, American and Oklahoma history, macroeconomics, state and local government, historiography/research, cultural anthropology, and social psychology.

#### University Core

Specific courses within the University Core are listed on the first page of this catalog section.

#### **University Core (46 Hrs)**

Bible/Theology (12 hrs)

Communication (9 hrs)

U.S. History and Government (6 hrs)

Science (6 hrs plus 1 hr of lab):

\*NATS 1014 General Biology and Lab

\*NATS 2103 Environmental Science

Math (3 hrs):

\*MATH 1513 College Algebra

Social Sciences (3 hrs):

\*PSYC 1103 Introduction to Psychology

Humanities (6 hrs -3 hrs must be literature):

\*ENGL 2303 World Literature Survey: The Ancient

World to the Renaissance

\*GEOG 2603 Human World Geography

\*These courses are required pre-requisites for the major. Upon completion of the above courses, corresponding University Core requirements will be satisfied. (These courses are required for this major regardless of previous degrees conferred). See the Academic Program Requirements section of this Catalog for additional requirements.

#### **Orientation Requirement**

Orientation (1Hr)

UNIV 1121 First Year Evangel

#### Major Requirements

#### Professional Education (33 Hrs)

EDUC 2101 MACU Teacher Education Orientation

EDUC 2102 Education Foundations

EDUC 3103 Educational Psychology

EDUC 3203 Instructional Technologies

EDUC 3303 Development Across the Life Span

EDUC 4203 Instructional Strategies I

#### Professional Education (continued)

EDUC 4213 Instructional Strategies II

EDUC 4223 The Exceptional Child

EDUC 4909 Student Teaching

#### Methods of Teaching

Choose area of specialization see below and corresponding methods course (3 hrs)

EDUC 4803 Methods of Teaching Secondary English or

EDUC 4703 Methods of Teaching Secondary Math or

EDUC 4603 Methods of Teaching Secondary

Social Studies

#### Secondary Education Areas of Specialization (44-45 Hrs)

Students may choose one area of specialization for their program of study (English, Math, or Social Studies).

#### Secondary English (45 Hrs)

ENGL 2103 British Literature Survey I

ENGL 2203 British Literature Survey II

ENGL 2403 World Lit. Sur. Renaissance to Modern Era

ENGL 2503 Amer. Lit Sur: Before 1865

ENGL 2603 Amer. Lit Sur: Since 1865

ENGL 3503 Advanced Composition

ENGL 3513 Major Figures OR

ENGL 3523 Special Topics

ENGL 3703 Creative Writing

ENGL 3713 Ethnic American Literature

ENGL 4203 Modern Grammar

ENGL 4303 Shakespeare

ENGL 4503 History of English Language

ENGL 4523 Young Adult Literature

ENGL 4533 Critical Approach to Literature

ENGL 4543 Language and Popular Culture

#### Secondary Mathematics (44 Hrs)

MATH 1303 Plane Trigonometry

MATH 2114 Calculus I and Analytic Geometry

MATH 2214 Calculus II

MATH 2313 Calculus III

3103 Linear Algebra MATH

History of Math MATH 3303

MATH 3403 Discrete Math

3703 Introduction to Statistics MATH MATH 4003 College Geometry I

MATH 4103 Abstract Algebra

MATH 4203 **Mathematical Statistics** 

MATH 4303 College Geometry II

Electives (6 Hrs)

Select 3 hours from within the Math discipline and 3 hours from any area.

#### Continued on Next Page

Mathematics B.S., Program Review, Section 3

Program Assessment System

### Assessment System for School of Math and Science

Program Outcome 1: Knowledge of Mathematical Problem Solving students know, understand, and apply the process of mathematical problem solving

Student Outcome 1.1 The student will apply and adapt a variety of appropriate strategies to solve problems

K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S	1,4	Calculus I	Shadow Box Project	3 or above	Calculus I after related rates	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	1,2,3,4,5	Calculus I	Lab Projects	3 or above	Weekly	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	5	Calculus II	Lab Projects	3 or above	Weekly	Direct	Internal	End of Semester	End of school year	Following Fall

Program Outcome 2: Knowledge of Reasoning and Proof

students reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry.

Student Outcome 2.1 The student will make and investigate mathematical conjectures.

K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Oata Analysis Timetable	Program Improvement Timetable
K,S	1,2,3	College Geometry I	Conjectures Sketchpad project	3 or above	End of Semester	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	1,2,4,5	College Geometry II	Develop student's own geometry	3 or above	Final Project in College Geometry II	Direct	Internal	End of Semester	End of school year	Following Fall

Student (	Outcome 2.2	The student will d	evelop and evalua	te mathematica	arguments and	proofs.				
K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvemen Timetable
K,S	3,4	College Geometry I	Proof Portfolio	3 or above	Final Project in College Geometry I	Direct	Internal	End of Semester	End of school year	Following Fall

#### Program Outcome 3. Knowledge of Technology

Students embrace technology as an essential tool for learning mathematics

Student Outcome 3.1 The student will use knowledge of mathematics to select and use appropriate technological tools, such as but not limited to, spreadsheets, dynamic graphing tools, computer algebra systems, dynamic statistical packages, graphing calculators, data-collection devices, and presentation software.

K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S	10	History of Math	Media Presentation	3 or above	History of Math Requirement	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	1,2	Linear Algebra	Create Online Dancer	3 or above	Linear Algebra requirement	Direct	Internal	End of Semester	End of school year	Following Fall
K,S		Introduction to Statistics	Final Project Introduction to Statistics	3 or above	Final for Introduction to Statistics	Direct	Internal	End of Semester	End of school year	Following Fall

#### Program Outcome 4: Knowledge of Number and Operation

Candidates demonstrate computational proficiency, including a conceptual understanding of numbers, ways of representing number, relationships among number and number systems, and meanings of operations.

Student Outcome 4.1 The student will apply the fundamental ideas of number theory

Al	lgebra	Code Portfolio  Graphing Calculator Programming Project	3 or above	End of Semester End of	Direct	Internal	End of Semester	End of School Year	Following Fall
A	lgebra	Calculator Programming Project	3 or above		Direct		F4 £		
K,S Abstract Calculator School Semester Direct Internal Semester School Semester								Following Fall	
		Ourse manues a	ind vectors as sy	stems that have	some of the	properties of	the real nu	mber	
		Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
Linea	r Algebra	Markov Chain Application project	3 or above	End of Semester	Direct	Internal	End of Semester	End of School Year	Following Fall
		monstrate knowle	edge of the histo	rical developme	nt of number	and number	systems inc	luding	
		Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
Histor	ry of Math	Final Research paper	3 or above	Final for History of Math	Direct	Internal	End of Semester	End of school year	Following Fall
e	Linea  Linea  Linea  Course Req  Histor  Linea  Linea	Linear Algebra  2. 4.4 The student will de m diverse cultures.  Course or Program Requirement  History of Math  The St. Knowledge of Differnasize relationships among the state of the stat	Course or Program Requirement  Linear Algebra  Application Project  4.4 The student will demonstrate knowled Method of Application Project  Course or Program Requirement  History of Math  Final Research Paper  The 5: Knowledge of Different Perspectives The student will assessment  Final Research Paper  The 5: Knowledge of Different Perspectives The state of Program Requirement  Final Research Paper  The 5: Knowledge of Different Perspectives The state of Program Requirement  Final Research Paper	Course or Program Assessment  Linear Algebra  Application Application Project  4.4 The student will demonstrate knowledge of the history of Math  History of Math  Final Research Paper  The St. Knowledge of Different Perspectives on Algebra Program Project  The St. Knowledge of Different Perspectives on Algebra Project  Method of Assessment  Final Research Paper  The St. Knowledge of Different Perspectives on Algebra Project Program Project  The St. Knowledge of Different Perspectives on Algebra Project Program Project Perspectives Including Functions	Course or Program Assessment  Linear Algebra  Markov Chain Application project  4.4 The student will demonstrate knowledge of the historical development and of Assessment  Method of Assessment  Course or Program Requirement  History of Math  Final Research paper  The St. Knowledge of Different Perspectives on Algebra masize relationships among quantities including functions, ways of representations and the season assessment  Criteria for Measurement  Point of Assessment  Point of Assessment  Final Research Point of Assessment  Final Research Point of Assessment  Final Research Paper  Assessment  Final Research Point of Assessment  Final Research Point of Assessment  Final For History of Math  Math	Course or Program Requirement  Linear Algebra  Markov Chain Application project  4.4 The student will demonstrate knowledge of the historical development of number and diverse cultures.  Method of Assessment  Course or Program Requirement  History of Math  Final Research paper  Method of Assessment  Method of Assessment  Final Research paper  3 or above  Final for History of Math  Final Research paper  Assessment  Final for History of Math  Method of Assessment  Final Research paper  Assessment  Final for History of Math  Method of Assessment  Final for History of Math	Course or Program Requirement Assessment Markov Chain Application Project Internal Inter	Course or Program Requirement  Markov Chain Application project  2.4.4 The student will demonstrate knowledge of the historical development of number and number systems income diverse cultures.  Course or Program Requirement  Method of Assessment  Criteria for Point of Semester  End of Semester  Direct  Internal Collection Timetable  End of Semester  Course or Program Requirement  History of Math  Final Research paper  Assessment  Final Research paper  Timetable  Criteria for Measurement  Assessment  Final for History of Math  Final Research paper  Timetable  Final for History of Math  Final Research paper  Timetable  End of Semester  Direct or Internal or External Assessment  Final for History of Math  Final Research paper  Timetable  End of Semester  Final for History of Math  Final Research Math  Final Research paper  Timetable  Final for History of Math  Final Research Math  Final Research Paper  Timetable  Final for History of Math  Final Research Math  Timetable  Final for History of Direct Internal Semester  Final for History of Direct	Course or Program Requirement  Markov Chain Application project  Assessment  Linear Algebra  Markov Chain Application project  Assessment  Assessment  End of Semester  Direct  Internal  End of Semester  Assessment  End of Semester  Assessment  End of Semester  Assessment  Assessment  End of Semester  Assessment  End of Semester  Assessment  Assessment  End of Semester  End of Semester  Assessment  Assessment  Assessment  End of Semester  Final for History of Math  Final Research paper  Assessment  Final for History of Math  Final Research paper  Assessment  Assessment  Final for History of Math  Final Research paper  Assessment  Analysis Timetable  End of Semester  Collection Timetable  Timetable  End of Semester  Timetable  End of Semester  Timetable  End of Semester  Timetable  End of Semester  Final for History of Math  Assessment  Analysis Timetable  End of Semester  Timeta

K,\$,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S	1,2	Calculus I	Lab Projects	3 or above	Weekly	Direct	Internal	End of Semester	End of school year	Following Fall
Student	Outcome 5.2	The student will a	pply fundamental i	deas of linear al	gebra.					
K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S	1,2,3,4	Linear Algebra	Final Comprehensive Exam	70%	End of Semester	Direct	Internal	End of Semester	End of school year	Following Fall
	Outcome 5.3 structures.	The student will a	oply the major cond	cepts of abstrac	algebra to justi	fy algebraic o	perations an	d formally a	nalyze	
K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S,D K,S			COLUMN TO COLUMN		Company of the Compan	Indirect	External	Collection	Analysis	Improvement
K,S	Outcome	Requirement  Abstract	Final Comprehensive Exam	Measurement 70%	Assessment  End of Semester	Indirect Assessment Direct	External Assessment Internal	End of Semester	Analysis Timetable End of school	Improvement Timetable Following
K,S	Outcome	Abstract Algebra	Final Comprehensive Exam	Measurement 70%	Assessment  End of Semester	Indirect Assessment Direct	External Assessment Internal	End of Semester	Analysis Timetable End of school	Improvement Timetable Following

K,S		Mathematical Modeling	Final Project in Mathematical Modeling	70%	Final for Mathematical Modeling	Direct	Internal	End of Semester	End of school year	Following Fall
Student diverse		The student will de	emonstrate knowle	edge of the histo	orical developme	nt of algebra	including co	ntributions f	rom	
K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S	2	History of Math	Final Research paper	3 or above	Final for History of Math	Direct	Internal	End of Semester	End of school year	Following Fall
	Outcome 6.1	The student will de d three dimensions Course or Program				Direct or	ean and non-	Euclidean  Data Collection	Data Analysis	Program Improvement
K,S	2,3,6	College Geometry I	Geometer's Sketchpad Project	Measurement  3 or above	End of Semester	Assessment	Internal	End of Semester	End of school year	Following Fall
K,S	2,4,5	College Geometry II	Geometer's Sketchpad	3 or above	End of Semester	Direct	Internal	End of Semester	End of school	Following Fall
14,5		Geometry	Project						year	Tu.
Student		The student will useal-world contexts.		s, drawings, and		tric software	to explore g	eometric ide	11.40.5	

K,S	1,4,5,6	College Geometry I	Proof Portfolio	3 or above	Final Project in College Geometry I	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	1,4,5,6	College Geometry I	Geometer's Sketchpad Project	3 or above	End of Semester	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	1,2,4,6	College Geometry II	Geometer's Sketchpad Project	3 or above	End of Semester	Direct	Internal	End of Semester	End of school year	Following Fall

Student Outcome 6.3 The student will demonstrate knowledge of the historical development of Euclidean and non-Euclidean geometries including contributions from diverse cultures.

K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S	3	History of Math	Final Research paper	3 or above	Final for History of Math	Direct	Internal	End of Semester	End of school year	Following Fall

**Program Outcome 7: Knowledge of Calculus** 

Candidates demonstrate a conceptual understanding of limit, continuity, differentiation, and integration and a thorough background in the techniques and application of the calculus.

Student Outcome 7.1 The student will demonstrate a conceptual understanding of and procedural facility with basic calculus concepts.

K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S	2,3,4,5	Calculus I	Final Comprehensive Exam	70%	End of semester	Direct	Internal	End of Semester	End of school year	Following Fall

K,S,D	Course Outcome	Course of Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
	Outcome 8.1 om real-worl	The student will a d situations	pply the fundame	ntal ideas of dis	crete mathemati	cs in the form	nulation and	solution of p	problems	
Candidat	tes apply the	Knowledge of Disc fundamental idea	s of discrete math	ematics in the f						
K,S	4	History of Math	Final Research paper	3 or above	Final for History of Math	Direct	Internal	End of Semester	End of school year	Following Fall
K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvemen Timetable
Student (		The student will o	lemonstrate know	ledge of the hist	torical developm	ent of calculu	s including c	ontributions	from	
K,S	1,4	Calculus I	Shadow Box Lab	3 or above	Calculus I after related rates	Direct	Internal	End of Semester	End of school year	Following Fall
K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvemen Timetable
	Outcome 7.2 Il-world conto	The student will uexts.	ise the concepts o	f calculus and m	athematical mod	deling to repr	esent and so	ve problem	s taken	
K,S	1,2,3,4,5	Calculus III	Final Comprehensive Exam	70%	End of semester	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	1,2,3,4	Exa Fin		70%	End of semester	Direct	Internal	End of Semester	End of school year	Following Fall

K,S	1,2,4	Discrete Math	Final Comprehensive Exam	70%	End of Semester	Direct	Internal	End of Semester	End of school year	Following Fall
WITH THE PARTY OF		Knowledge of Data rate an understand	CONTRACTOR OF THE PROPERTY OF	The state of the s	Company of the Control of the Contro	ysis <mark>, stat</mark> istics	, and proba	bility.		
		The student will omay include bivaria					isplay data a	nd interpret	data	
K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program (mprovemer Timetable
K,S		Introduction to Statistics	Final Project Introduction to Statistics	3 or above	Final for Introduction to Statistics	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	1,3,4,5	Mathematical Statistics	Final Project in Mathematical Statistics	3 or above	Final for Mathematical Statistics	Direct	Internal	End of Semester	End of school year	Following Fall
Student ( and cent		The student will u	Ise appropriate sta	tistical method	s and technologic	al tools to de	scribe shape	and analyze	e spread	
K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improveme Timetable
K,S		Introduction to Statistics	Analysis of Spread and Center Exam	70%	First test in Fall semesters	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	2,3,4,6,7	Mathematical Statistics	Analysis of Spread and	3 or above	End of semester	Direct	Internal	End of Semester	End of school	Followin Fall

K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S		Introduction to Statistics	Confidence Interval Construction Exam	70%	During Semester	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	Introduction to Statistics Hypothesis Test Final Project Hypothesis				End of semester	Direct	Internal	End of Semester	End of school year	Following Fall
K,S	6,7,8	Mathematical Statistics	Hypothesis Test Final Project	3 or above	End of semester	Direct	Internal	End of Semester	End of school year	Following Fall
		The student will d verse cultures.	emonstrate know	ledge of the hist	orical developm	ent of statisti	cs and proba	bility includ	ing	
K,S,D	Course Outcome	Course or Program Requirement	Method of Assessment	Criteria for Measurement	Point of Assessment	Direct or Indirect Assessment	Internal or External Assessment	Data Collection Timetable	Data Analysis Timetable	Program Improvement Timetable
K,S	5	History of Math	Final Research paper	3 or above	End of semester	Direct	Internal	End of Semester	End of school year	Following Fall

Mathematics B.S., Program Review, Section 4

Program Curriculum Map with PO and SLO explanations

Mid-America Christian University - College of Arts and Sciences - School of Math and Science

	ematics / BS Program culum Map		Plane Trigonom etry	Calculus I and Analytic Geometry	Calculus II			History of Math	Discrete Math	Introducti on to Statistics	Mathemat ical Statistics	ming	Languag es	Geometry	Differenti al Equations	Algebra	Mathemat ical Modeling	Geometry	Physics
	Program Outcomes	SLOs	MATH 1303	MATH 2114	MATH 2214	MATH 2313	MATH 3103	MATH 3303	MATH 3403	MATH 3703	MATH 4203	MISE 4103	MISE 4603	MATH 4003	MATH 4013	MATH 4103	MATH 4113	MATH 4303	PHYS 2104
1	Knowledge of Mathematical Problem Solving: Students know, understand, and apply the process of mathematical problem solving	1.1	x	×	x	x	x	x	х	х	x	x	x	x	x	х	x	x	×
2	Knowledge of Reasoning and Proof: students reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry.	2.1 2.2							x		x			x		x		x	
3	Knowledge of Technology: Students embrace technology as an essential tool for learning mathematics	3.1	x	x	x	x	x		×	x	x	x	х	x	х		х	x	x
4	Knowledge of Number and Operation: Students demonstrate computational proficiency, including a conceptual understanding of numbers, ways of representing number, relationships among number and number systems, and meanings of operations.	4.1 4.2 4.4				×	x	x	x			х	х	x	х	х	x	x	x

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5	Knowledge of Different Perspectives on Algebra: Students emphasize relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change.	5.1 5.2 5.3 5.4 5.5	x	x	x	x	x	x	x		x		x	x	x	x	x	x
6	Knowledge of Geometries: Students use spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and their properties.	6.1 6.2 6.3	x	x	x	x	x	x					<b>x</b>			x	x	x
7	Knowledge of Calculus: Candidates demonstrate a conceptual understanding of limit, continuity, differentiation, and integration and a thorough background in the techniques and application of the calculus.	7.1 7.2 7.3		x	x	x		x			x			x				x
8	Knowledge of Discrete Mathematics: Students apply the fundamental ideas of discrete mathematics in the formulation and solution of problems.	8.1					x	x	x	x	x				x	x		
	Knowledge of Data Analysis, Statistics, and Probability: Students demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability.	9.1 9.2 9.3 9.4			x			x	x	x	x							

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#### **Student Learning Outcomes**

- 1.1 The student will apply and adapt a variety of appropriate strategies to solve problems
- 2.1 The student will make and investigate mathematical conjectures.
- 2.2 The student will develop and evaluate mathematical arguments and proofs.
- 3.1 The student will use knowledge of mathematics to select and use appropriate technological tools, such as but not limited to, spreadsheets, dynamic graphing tools, computer
- 4.1 The student will apply the fundamental ideas of number theory
- 4.2 The student will recognize matrices and vectors as systems that have some of the properties of the real number system.
- 4.4 The student will demonstrate knowledge of the historical development of number and number systems including contributions from diverse cultures.
- 5.1 The student will analyze patterns, relations, and functions of one and two variables.
- 5.2 The student will apply fundamental ideas of linear algebra.
- 5.3 The student will apply the major concepts of abstract algebra to justify algebraic operations and formally analyze algebraic structures.
- 5.4 The student will use mathematical models to represent and understand quantitative relationships.
- 5.5 The student will demonstrate knowledge of the historical development of algebra including contributions from diverse cultures.
- The student will demonstrate knowledge of core concepts and principles of Euclidean and non-Euclidean geometries in two and three dimensions from both formal and informal perspectives.
- 6.2 The student will use concrete models, drawings, and dynamic geometric software to explore geometric ideas and their applications in real-world contexts.
- 6.3 The student will demonstrate knowledge of the historical development of Euclidean and non-Euclidean geometries including contributions from diverse cultures.
- 7.1 The student will demonstrate a conceptual understanding of and procedural facility with basic calculus concepts.
- 7.2 The student will use the concepts of calculus and mathematical modeling to represent and solve problems taken from real-world contexts.
- 7.3 The student will demonstrate knowledge of the historical development of calculus including contributions from diverse cultures.
- 8.1 The student will apply the fundamental ideas of discrete mathematics in the formulation and solution of problems arising from real-world situations

- The student will design investigations, collect data, and use a variety of ways to display data and interpret data representations that may include bivariate data, conditional probability and geometric probability.
- 9.2 The student will use appropriate statistical methods and technological tools to describe shape and analyze spread and center.
- 9.3 The student will use statistical inference to draw conclusions from data.
- 9.4 The student will demonstrate knowledge of the historical development of statistics and probability including contributions from diverse cultures.

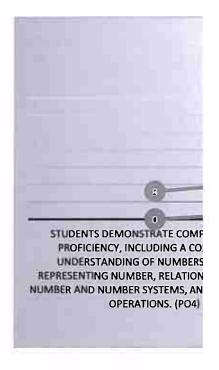
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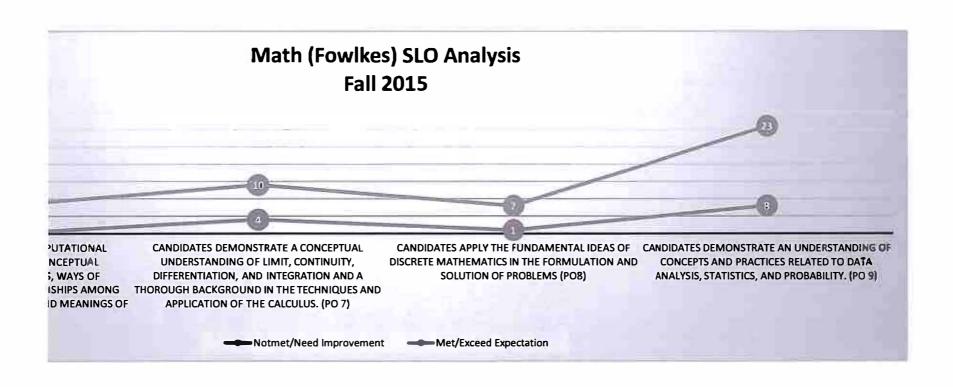
Mathematics B.S., Program Review, Section 5

Three-year Program Assessment using POs and SLOs

### Program Outcome and Student Learning Outcome Data Analysis Fall 2015

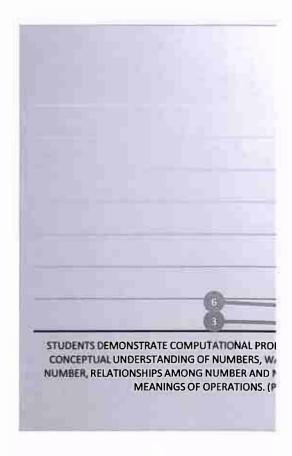
List Programs and Student Outcomes Measured	Notmet/Need Improvement	Met/Exceed Expectation
Students demonstrate computational proficiency, including a		
conceptual understanding of numbers, ways of representing		
number, relationships among number and number systems, and		
meanings of operations. (PO4)	0	8
Candidates demonstrate a conceptual understanding of limit,		
continuity, differentiation, and integration and a thorough		
background in the techniques and application of the calculus.		
(PO 7)	4	10
Candidates apply the fundamental ideas of discrete		
mathematics in the formulation and solution of problems (PO8)		
	1	7
Candidates demonstrate an understanding of concepts and		
practices related to data analysis, statistics, and probability. (PO		
9)	8	23

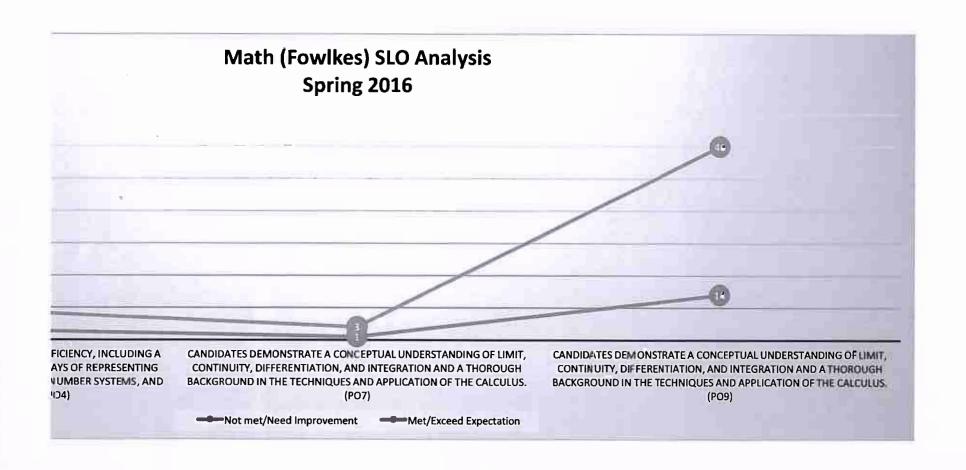




Program Outcome and Student Learning Outcome Data Analysis
Spring 2016

List Programs and Student Outcomes Measured	Not met/Need Improvement		Met/Exceed Expectation	
Students demonstrate computational proficiency,				
including a conceptual understanding of numbers,				
ways of representing number, relationships among				
number and number systems, and meanings of				
operations. (PO4)		3		6
Candidates demonstrate a conceptual understanding				
of limit, continuity, differentiation, and integration				
and a thorough background in the techniques and				
application of the calculus. (PO7)		1		3
Candidates demonstrate a conceptual understanding				
of limit, continuity, differentiation, and integration				
and a thorough background in the techniques and				
application of the calculus. (PO9)		14		46





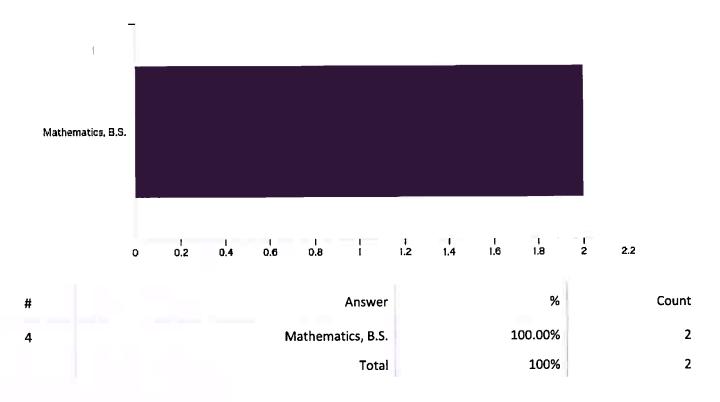
# Program Outcome and Student Learning Outcome Data Analysis Fall 2016/Spring 2017

List Programs and Student Outcomes Measured	Notmet/Need Improvement	Met/Exceed Expectation
Students reason, construct, and evaluate mathematical arguments		
and develop and appreciation for mathematical rigor and inquiry.		
(PO2)	0	2
Students embrace technology as an essential tool for learning		
mathematics. (PO 3)	2	
(PO5)	4	8
(PO 6)	0	
(PO7)	2	
(PO 9)	5	23

### Math and Science

Program Outcomes Spring 2017
August 2nd 2017, 12:21 pm MDT

#### M&S - Math and Science



MATH - Program Outcome 1: Students know, understand, and apply the process of mathematical problem solving.

Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Number of Students Not Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Needs Improvement	0.00	0.00	0.00	0.00	0.00	1
Number of Students Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Exceeds Expectations	3.00	3.00	3.00	0.00	0.00	1

## MATH - Program Outcome 2: Students reason, construct, and evaluate mathematical arguments and develop and appreciation for mathematical rigor and inquiry.

Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Number of Students Not Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Needs Improvement	0.00	0.00	0.00	0.00	0.00	1
Number of Students Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Exceeds Expectations	2.00	2.00	2.00	0.00	0.00	1

### MATH - Program Outcome 3: Students embrace technology as an essential tool for learning mathematics.

Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Number of Students Not Met	2.00	2.00	2.00	0.00	0.00	1
Number of Students Needs Improvement	0.00	0.00	0.00	0.00	0.00	1
Number of Students Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Exceeds Expectations	2.00	2.00	2.00	0.00	0.00	1

# MATH - Program Outcome 4: Students demonstrate computational proficiency, including a conceptual understanding of numbers, ways of representing number, relationships among number and number systems, and meanings of operations.

Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Number of Students Not Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Needs Improvement	0.00	0.00	0.00	0.00	0.00	1
Number of Students Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Exceeds Expectations	0.00	0.00	0.00	0.00	0.00	1

MATH - Program Outcome 5: Candidates emphasize relationships among quantities including functions, way of representing mathematical relationships, and the analysis of change.

Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Number of Students Not Met	4.00	4.00	4.00	0.00	0.00	1
Number of Students Needs Improvement	0.00	0.00	0.00	0.00	0.00	1
Number of Students Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Exceeds Expectations	8.00	8.00	8.00	0.00	0.00	1

# MATH - Program Outcome 6: Candidates use spatial visualization and geometric modeling to explore and analyze geometric shapes, structures, and their properties.

Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Number of Students Not Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Needs Improvement	0.00	0.00	0.00	0.00	0.00	1
Number of Students Met	2.00	2.00	2.00	0.00	0.00	1
Number of Students Exceeds Expectations	0.00	0.00	0.00	0.00	0.00	1

# MATH - Program Outcome 7: Candidates demonstrate a conceptual understanding of limit, continuity, differentiation, and integration and a thorough background in the techniques and application of the calculus.

Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Number of Students Not Met	2.00	2.00	2.00	0.00	0.00	1
Number of Students Needs Improvement	0.00	0.00	0.00	0.00	0.00	1
Number of Students Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Exceeds Expectations	1.00	1.00	1.00	0.00	0.00	1

## MATH - Program Outcome 8: Candidates apply the fundamental ideas of discrete mathematics in the formulation and solution of problems.

Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Number of Students Not Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Needs Improvement	0.00	0.00	0.00	0.00	0.00	1
Number of Students Met	0.00	0.00	0.00	0.00	0.00	1
Number of Students Exceeds Expectations	0.00	0.00	0.00	0.00	0.00	1

# MATH - Program Outcome 9: Candidates demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability.

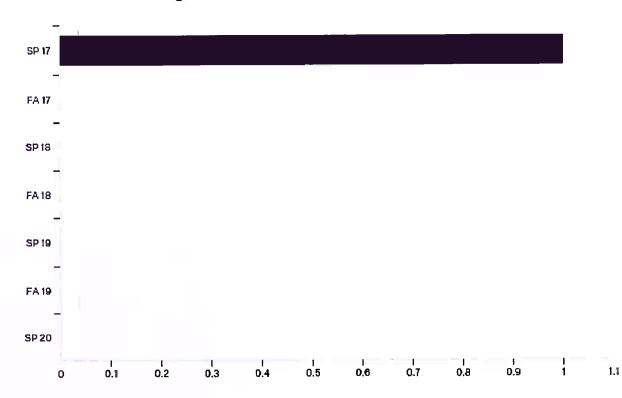
Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Number of Students Not Met	5.00	5.00	5.00	0.00	0.00	1
Number of Students Needs Improvement	0.00	0.00	0.00	0.00	0.00	1
Number of Students Met	11.00	11.00	11.00	0.00	0.00	1
Number of Students Exceeds Expectations	12.00	12.00	12.00	0.00	0.00	1

### MATH - Your Name (Completing this survey)

Your Name (Completing this survey)

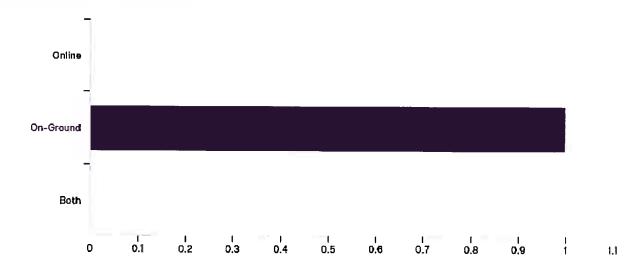
**Carol Fowlkes** 

#### **MATH** - Semester being assessed



#	Answer	%	Count
1	SP 17	100.00%	1
2	FA 17	0.00%	0
3	SP 18	0.00%	0
4	FA 18	0.00%	0
5	SP 19	0.00%	0
6	FA 19	0.00%	0
7	SP 20	0.00%	0
	Total	100%	1

### **MATH - Delivery Modality**



#	Answer	%	Count
1	Online	0.00%	0
2	On-Ground	100.00%	1
3	Both	0.00%	0
	Total	100%	1

Mathematics B.S., Program Review, Section 6

Program Outcome Student Learning Outcome D3 Forms



### **CAS Program Outcome Template**

Please submit all data electronically via AAIR

#### **Section I: Background Information**

The Higher Learning Commission (HLC) defines assessment of student learning as a participatory, iterative process that: (1) Provides data/information you need on your students' learning, (2) Engages you and others in analyzing and using this data/information to confirm and improve teaching and learning, (3) Produces evidence that students are learning the outcomes you intended, (4) Guides you in making educational and institutional improvements, (5) Evaluates whether changes made improve/impact student learning, and (6) Documents the learning and your efforts.

MACU Vision: Preparing People to Do Greater Things for God and His Kingdom

MACU Mission: Preparing students through a Wesleyan perspective to create, collaborate, and innovate to solve local and global problems for the glory of God through Jesus Christ and the good of society.

MACU WIGs: (1). MACU will "put F.E.A.T." to its student-centered services by achieving an annual 5% increase in the overall student satisfaction survey beginning 6/1/15 and ending 5/31/18. (F.E.A.T. = Friendly, Excellent, Accurate, and Timely). (2). MACU will take a "GiANT step" in developing a "Liberator" by starting five core groups each year over the next three years beginning 6/1/15 and ending 5/31/18.

School WIG: \_ The School of Math and Science will increase question 14 average score on the End of Course Evaluations regarding the turn-around time for feedback on graded assignments in a timely manner from 90.5% to 95% by May 31, 2016

#### Section II: Participant Data

Program: Mathematics Total Students in the Program: 15

Faculty/Chair: Carol Fowlkes Email: cfowlkes@macu.edu

Report Date: 1/7/15 Semester/Year; Fall 2015

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School Mission/Goals: The B.S. in Mathematics provides a comprehensive understanding of the nature of mathematics and its relation to the sciences, philosophy and other liberal arts. In addition to general education and Bible coursework, course topics include geometry, calculus, linear algebra, abstract algebra, statistics, differential equations and mathematical modeling to provide a foundation on which graduates may begin a career in teaching, applied mathematics and research or pursue graduate studies.

#### Section III: Outcome Data

1. List your Program and Student Learning Outcomes.

Outcome	List Program Outcome	List Student Learning Outcomes			
Outcome 1	Knowledge of Mathematical Problem Solving	Student Learning Outcome 1.1. Students know, understand, and apply the process of mathematical problem solving			
Outcome 2	Knowledge of Reasoning and Proof	Student Learning Outcome 2.1. Students reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry.			
Outcome 3	Knowledge of Technology	Student Learning Outcome 3.1. Students embrace technology as an essential tool for learning mathematics			
Outcome 4	Knowledge of Number and Operation	Student Learning Outcome 4.1. Students demonstrate computational proficiency, including a conceptual understanding of numbers, ways of representing number, relationships among number and number systems, and meanings of operations.			
Outcome 5	Knowledge of Different Perspectives on Algebra	Student Learning Outcome 5.1. Candidates emphasize relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change.			
Outcome 6	Knowledge of Geometries	Student Learning Outcome 6.1. Candidates use spatial visualization and geometric modeling to			

		explore and analyze geometric shapes, structures, and their properties.
Outcome 7	Knowledge of Calculus	Student Learning Outcome 7.1. Candidates demonstrate a conceptual understanding of limit, continuity, differentiation, and integration and a thorough background in the techniques and application of the calculus.
Outcome 8	Knowledge of Discrete Mathematics	Student Learning Outcome 8.1. Candidates apply the fundamental ideas of discrete mathematics in the formulation and solution of problems.
Outcome 9	Knowledge of Data Analysis, Statistics, and Probability	Student Learning Outcome 9.1. Candidates demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability.

2. Indicate which Program Outcomes were measured each semester (fall, spring) by marking  $\underline{\mathbf{X}}$  in appropriate cell.

Outcome	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018	Faii 2018	Spring 2019
Outcome 1	х	х			х	x			х	x
Outcome 2	х	х	I		х	х			х	х
Outcome 3	x	х			х	х			х	х
Outcome 4			x	x			х	х		
Outcome 5	х	х			х	х			х	х
Outcome 6	х	х			х	х			х	x
Outcome 7			х	х			х	х		
Outcome 8			x				х			
Outcome 9			х	х			х	х		

#### Section IV: Data Analysis

1. Use the following 4-Point Scale Rubric below to indicate number of students in each category.

List Program and Student Outcomes Measured	1=Not Met	2=Need Improvement	3=Met	4=Exceed Expectations
Outcome 4.0: Knowledge of Number and Operation	0	0	1	7

Student Outcome 4.1: Students demonstrate computational proficiency, including a conceptual understanding of numbers, ways of representing number, relationships among number and number systems, and meanings of operations.				
Outcome 7.0: Knowledge of Calculus Student Outcome 7.1: Candidates demonstrate a conceptual understanding of limit, continuity, differentiation, and integration and a thorough background in the techniques and application of the calculus.	1	3	5	5
Outcome 8.0: Knowledge of Discrete Math Student Outcome 8.1: Candidates apply the fundamental ideas of discrete mathematics in the formulation and solution of problems	0	1	1	6
Outcome 9.0: Knowledge of Data Analysis, Statistics, and Probability Student Outcome 9.1: Candidates demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability.	6	2	17	6

2. Identify the <u>percentage (%)</u> of students did not meet, need improvement, met, and/or exceed expectations for each program outcome measured per semester.

		Percent (%) of	Students Meet a	nd/or Exceed Expectations
Program Outcome	Year	% Students Not Met and/or Need Improvement	% Students Met and/or Exceed Expectations	
Outcome 4.0:	Fall 2014			
Knowledge	Sp. 2015			
of Number	Fall 2015	0%	100%	
and Operation	Sp. 2016			
Operation	Fall 2016			
	Sp. 2017			
0	Fall 2014			]
Outcome 7.0: Knowledge of	Sp. 2015			
Calculus	Fall 2015	28.6%	71.4%	ľ
	Sp. 2016			
	Fall 2016			
Outcome 8.0:	Fall 2014			
Knowledge of Discrete	Sp. 2015			
Math	Fall 2015	12.5%	87.5%	
	Sp. 2016			
Outcome 9.0:	Fall 2014			
Knowledge of Data	Sp. 2015			
Analysis,	Fall 2015	25.8%	74.2%	
Statistics, and Probability	Sp. 2016			

### Section V: Reports

1. How did you measure the program and student learning outcomes?

Revised September 2015

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Office of Academic Assessment, Accreditation, and Institutional Research

Program Outcome 4 was measured using one assessment tool: Final projects from Discrete Math where the students completed coding portfolios. These were 50 point assignments and students with less than 30 points were not met, between 30 and 34 were needs improvement, between 35 and 44 were met, and 45 or more were exceed expectations.

Program Outcome 7 was measured with 3 assessment tools: Final Exam grade in Calculus I, Final Exam grade in Calculus 3, and Shadow Box Lab from Calculus 1. Below 60% was not met, between 60% and 69% was needs improvement, between 70% and 89% was met, and 90% or better was exceeds expectations on the final exams and lab.

Program Outcome 8 was measured with 1 assessment tool: Final Exam grade in Discrete Math. Below 60% was not met, between 60% and 69% was needs improvement, between 70% and 89% was met, and 90% or better was exceeds expectations on the final exams and lab.

Program Outcome 9 was measured with 5 assessment tools: Final Project (hypothesis test) in Introduction to Statistics, Final project (multiple regression) in Mathematical Statistics, Analysis of spread and center exam in Introduction to Statistics, Analysis of Spread and Center Exam in Mathematical Statistics, and Confidence Interval Exam in Introduction to Statistics.

#### 2. What were the major findings?

Program Outcome 7 Knowledge of Calculus had the lowest percent of students that met expectations. This was surprising since these are the foundational courses for all math majors. We must find a way to increase this percent. One of the factors leading to the low percent was one student that was transferring to another school and had given up on math as a major and did not show his best effort on the final exam.

Program Outcome 4 Knowledge of Number and Operation showed 100% of the students meeting expectations which shows we are successful in this area and need to continue utilizing this success.

### 3. What steps are you planning to take to improve student learning outcomes?

In Calculus 1, only 50% of the students met expectations on the final comprehensive exam. In Calculus III, 66.7% of the students met expectations on the final comprehensive exam. It appears based on chapter tests that the professors might be trying to cram too much in after Thanksgiving break. Next fall professors will attempt to give another chapter test and then review for two days rather than one day for the final comprehensive exam. The review will be utilizing best practices. The students appear to be learning the information as shown by chapter tests, but when they have to put it all together for the final comprehensive exam, the task becomes more difficult.



### **CAS Program Outcome Template**

Please submit all data electronically via AAIR

#### Section I: Background Information

The Higher Learning Commission (HLC) defines assessment of student learning as a participatory, iterative process that: (1) Provides data/information you need on your students' learning, (2) Engages you and others in analyzing and using this data/information to confirm and improve teaching and learning, (3) Produces evidence that students are learning the outcomes you intended, (4) Guides you in making educational and institutional improvements, (5) Evaluates whether changes made improve/impact student learning, and (6) Documents the learning and your efforts.

MACU Vision: Preparing People to Do Greater Things for God and His Kingdom

MACU Mission: Preparing students through a Wesleyan perspective to create, collaborate, and innovate to solve local and global problems for the glory of God through Jesus Christ and the good of society.

MACU WIGs: (1). MACU will "put F.E.A.T." to its student-centered services by achieving an annual 5% increase in the overall student satisfaction survey beginning 6/1/15 and ending 5/31/18. (F.E.A.T. = Friendly, Excellent, Accurate, and Timely). (2). MACU will take a "GiANT step" in developing a "Liberator" by starting five core groups each year over the next three years beginning 6/1/15 and ending 5/31/18.

School WIG: \_ The School of Math and Science will increase question 14 average score on the End of Course Evaluations regarding the turn-around time for feedback on graded assignments in a timely manner from 90.5% to 95% by May 31, 2016

#### Section II: Participant Data

Program: Mathematics Total Students in the Program: 15

Faculty/Chair: Carol Fowlkes Email: cfowlkes@macu.edu

Report Date: 5/30/16 Semester/Year: Spring 2016

School Mission/Goals: The B.S. in Mathematics provides a comprehensive understanding of the nature of mathematics and its relation to the sciences, philosophy and other liberal arts. In addition to general education and Bible coursework, course topics include geometry, calculus, linear algebra, abstract algebra, statistics, differential equations and mathematical modeling to provide a foundation on which graduates may begin a career in teaching, applied mathematics and research or pursue graduate studies.

#### **Section III: Outcome Data**

1. List your Program and Student Learning Outcomes

Outcome	List Program Outcome	List Student Learning Outcomes
Outcome 1	Knowledge of Mathematical Problem Solving	Student Learning Outcome 1.1. Students know, understand, and apply the process of mathematical problem solving
Outcome 2	Knowledge of Reasoning and Proof	Student Learning Outcome 2.1. Students reason, construct, and evaluate mathematical arguments and develop an appreciation for mathematical rigor and inquiry.
Outcome 3	Knowledge of Technology	Student Learning Outcome 3.1. Students embrace technology as an essential tool for learning mathematics
Outcome 4	Knowledge of Number and Operation	Student Learning Outcome 4.1. Students demonstrate computational proficiency, including a conceptual understanding of numbers, ways of representing number, relationships among number and number systems, and meanings of operations.
Outcome 5	Knowledge of Different Perspectives on Algebra	Student Learning Outcome 5.1. Candidates emphasize relationships among quantities including functions, ways of representing mathematical relationships, and the analysis of change.
Outcome 6	Knowledge of Geometries	Student Learning Outcome 6.1. Candidates use spatial visualization and geometric modeling to

		explore and analyze geometric shapes, structures, and their properties.
Outcome 7	Knowledge of Calculus	Student Learning Outcome 7.1. Candidates demonstrate a conceptual understanding of limit, continuity, differentiation, and integration and a thorough background in the techniques and application of the calculus.
Outcome 8	Knowledge of Discrete Mathematics	Student Learning Outcome 8.1. Candidates apply the fundamental ideas of discrete mathematics in the formulation and solution of problems.
Outcome 9	Knowledge of Data Analysis, Statistics, and Probability	Student Learning Outcome 9.1. Candidates demonstrate an understanding of concepts and practices related to data analysis, statistics, and probability.

2. Indicate which Program Outcomes were measured each semester (fall, spring) by marking  $\underline{\mathbf{X}}$  in appropriate cell.

Outcome	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019
Outcome 1	х	х			х	х			х	х
Outcome 2	х	х			х	х			х	х
Outcome 3	х	х			х	х			х	х
Outcome 4			х	х			х	х		
Outcome 5	х	х			х	х			х	х
Outcome 6	х	х			х	х			х	х
Outcome 7			х	х			х	х		
Outcome 8			х				х			
Outcome 9			х	х			х	х		

#### Section IV: Data Analysis

1. Use the following 4-Point Scale Rubric below to indicate <u>number</u> of students in each category.

<u> </u>				
List Program and Student Outcomes Measured	1=Not Met	2=Need Improvement	3=Met	4=Exceed Expectations
Outcome 4.0: <b>Knowledg Number and Operation</b>	·	2	3	3

Student Outcome 4.1:				
Students demonstrate				
computational proficiency,				
including a conceptual				
understanding of numbers,				
ways of representing				
number, relationships		1		
among number and number				
systems, and meanings of				
operations.				
Outcome 7.0: Knowledge of	0	1	1	1
Calculus				
Student Outcome 7.1:				
Candidates demonstrate a				
conceptual understanding of	ļ,			
limit, continuity,				
differentiation, and				
integration and a thorough				
background in the				
techniques and application				
of the calculus.				
Outcome 9.0: Knowledge of	10	4	16	30
Data Analysis, Statistics,				
and Probability				
Student Outcome 9.1:				
Candidates demonstrate an				
understanding of concepts				
and practices related to data				
analysis, statistics, and				
probability.				

2. Identify the <u>percentage (%)</u> of students did not meet, need improvement, met, and/or exceed expectations for each program outcome measured per semester.

		Percent (%) of	Students Meet a	nd/or Ex	ceed Expe	ectations	
Program Outcome	Year	% Students Not Met and/or Need Improvement	% Students Met and/or Exceed Expectations				
	Fall 2014						

Revised September 2015

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Outcome 4.0:	Sp. 2015		
Knowledge of Number	Fall 2015	0%	100%
and	Sp. 2016	33%	67%
Operation	Fall 2016		
	Sp. 2017		
	Fall 2014		
Outcome 7.0:  Knowledge of	Sp. 2015		
Calculus	Fall 2015	28.6%	71.4%
	Sp. 2016	33%	67%
	Fall 2016		
Outcome 9.0:	Fall 2014		
Knowledge of Data	Sp. 2015		
Analysis,	Fall 2015	25.8%	74.2%
Statistics, and Probability	Sp. 2016	23%	77%

#### Section V: Reports

1. How did you measure the program and student learning outcomes?

Program Outcome 4 was measured using two assessment tools: The first assessment tool was the average of 4 tests given in Abstract Algebra. Averages less than 60% did not meet expectations, averages between 60% and 70% were needs improvement, averages between 70% and 90% were met expectations, and averages more than 90% were exceeds expectations. The second assessment tool was the final exam score for Linear Algebra. Scores less than 60% did not meet expectations, scores between 60% and 70% were needs improvement, scores between 70% and 90% were met expectations, and scores more than 90% were exceeds expectations.

Program Outcome 7 was measured with 1 assessment tools: Average of 4 tests given over the semester in Calculus II. Below 60% was not met, between 60% and 69% was needs improvement, between 70% and 89% was met, and 90% or better was exceeds expectations on the exams.

Program Outcome 9 was measured with 3 assessment tools: Final Project (hypothesis test) in Introduction to Statistics, Analysis of spread and center exam in Introduction to Statistics, and Confidence Interval Exam in Introduction to Statistics. Below 60% was not met, between 60% and 69% was needs improvement, between 70% and 89% was met, and 90% or better was exceeds expectations on the exams and final project.

#### 2. What were the major findings?

Program Outcome 4 Knowledge of Number and Operation showed only 67% of the students meeting or exceeding expectations which was less than the 100% in the previous semester. One of the hardest courses for math majors was assessed in this semester and there was a student that really struggled with the theory part of this course. He was encouraged to go see the professor for extra help and get tutoring. This was also a low-enrollment course. The assessment of Linear Algebra showed that many students need improvement on their final exam scores.

Program Outcome 7 Knowledge of Calculus showed a drop in the students that met/exceeded expectations from the previous semester. The number of calculus students being assessed also dropped since Calculus II is the only course offered in the spring that meets this program outcome.

3. What steps are you planning to take to improve student learning outcomes?

Next spring professors in Calculus 2 will review for two days rather than one day for the final comprehensive exam. The review will be utilizing best practices. The students appear to be learning the information as shown by chapter tests, but when they have to put it all together for the final comprehensive exam, the task becomes more difficult.

4. Provide evidence documents supporting your measurement, findings, and plan of action for improvement.

Refer to Question 1 and 3.

College-School (i.e. CAS/Calculus II): Chair's Name:

### **Program Outcome/Student Learning Outcome D3 Form**

Semester	Report Date	Areas of Focus	Action Plan	Timeline	Anticipated Results	Actual Results	Evidence Files
Fall 2016	12/21/2016	Improving student attendance	Make sure all syllabi have a reward for missing less than 3 and a "punishment" to be determined by department members for missing more than two weeks worth of classes	Spring 2017		Attendance was much better in the spring and therefore grades were reflective of this area of focus.	

Spring 2017	5/25/2017	PO3: Knowledge of	This outcome is	Spring 2018	The goal is that 100%	Technology was	
opring zozy	3/23/2017	Technology: Students	assessed in Linear	Spring 2010	will utilize the coding	much improved for	
1		embrace technology as an	I		language utilizing	this academic year	
		essential tool for learning	· .		Scratch software and	however, Program	
					embrace this	outcome 3 was not	
1		mathematics	Statistics final project.				
			In Linear Algebra the		technology as an	assessed this year	
			online web software		essential tool for		
			did not work this year		learning mathematics		
			and therefore I had to		and its application to		
			use MIT's Scratch		Linear Algebra		
			software and only 2				
			students turned it in				
		1	because I made it				
		1	bonus rather than an				
- 1			assignment. I will				
1			make it required and				
			teach the coding				
			required to make the				
		1	application to Linear				
		1	Algebra.				

Spring 2017	5/25/2017	PO5: Knowledge of	SO5.2 The student will	Caring 2010		For Calculus	
Spring 2017	3/23/2017	different perspectives of		Spring 2019			
			apply fundamental			especially, final	
		Algebra: Students	ideas of linear algebra			exam scores were	
		emphasize relationships	was not met this			much improved.	
		among quantities	semester with 3 out of			More time was	
		including functions, way	4 not meeting			spent on studying	
		of representing	expectations. This was			for the final exam	
		mathematical	assessed on the final			and study groups	
1		relationships, and the	comprehensive exam.			were encouraged	
		analysis of change.	The students showed			and used.	
			knowledge on chapter				
		1	tests but did not				
			display this knowledge				
			at the comprehensive				
			final. Therefore, an				
			effort will be made to				
			continually reteach				
			and refresh and refer				
			back to prior				
			knowledge as progress				
			is made through the				
			semester.				
					· ·		
Fall 17/Spring	5/22/2018	PO4: Knowledge of	Spend two days	Spring 2019	100% of the students		
18		Number and Operation	reviewing exclusively		meet expectations on		
		SLO 4.2 The student will	for final exam offering		SLO 4.2		
		recognize matrices and	study groups with the				
		vectors as systems that	professor				
		have some of the					
		properties of the real					
		number system. This was					
		assessed in MATH 3103					
		Linear Algebra on their					
		final exam.					

		T				 
Fall 17/Spring 18	5/23/2018	PO7: Knowledge of Calculus 78% of students met/exceed expectations.	On lab days for both Calculus I and Calculus II, more time will be spent on fundamentals of calculus and review (derivatives, integrals)	Spring 2019	100% of the students meet expectations on PO7	
			as well as their application.			
Fall 17/Spring 18	5/23/2018	PO9: Knowledge of Data Analysis, Statistics, and probability 78% of students met/exceed expectations. SLO 9.2 The student will use appropriate statistical methods and technological tools to describe shape and analyze spread and center. This outcome was the lowest of the SLO's for Program outcome 9. 8% (1/13) needed improvement. This was assessed in both the Introduction to Statistics course as well as the Mathematical Statistics course.		Spring 2019	100% of the students meet expectations on SLO 9.2	

Mathematics B.S., Program Review, Section 7

End of Course D3 Forms

College-School (i.e. CAS/Calculu School of Math and Science Chair's Name: Carol Fowlkes

### **End of Course D3 Form**

Semester	Report Date	Areas of Focus	Action Plan	Timeline	Anticipated Results	Actual Results	Evidence Files
fall 2016	12/21/2016	Q9 integrating technology	There is one professor who does not like to use technology so I will work with him to have him implement one new technology per semester into the lecture	1/5-5/16	This will not be the bottom score on EOC and will be above 3.0	Q9 was not the bottom but the average still did not improve. It went from 3.71 to 3.69 which was not a significant decrease.	
Spring 2017	5/23/2017	Q6 returning materials in a timely manner	In the 15-16 academic year we had made this question the focus of our WIG. In the 17-18 school year we will return and add this to our School WIG and inform all instructors, including adjunct the focus of the year.		with an average of 3.6. Our goal is to improve	The average was a 3.302 for spring 2018 and 3.725 for Fall 2017 for an overall average for the academic year of 3.505	

Fall 2017	5/22/2018	Q10 The organization of the course was conducive to learning. The average on this question was 3.029					
Spring 2018	5/22/2018	Q10 The organization of the course was conducive to learning. The average on this question was 3.029	lowest question average for the	8/20/2018- 5/10/2019	To raise this score from a 3.029 to 3.5 by May 2019		
						_	

Mathematics B.S., Program Review, Section 8

End of Course Evidence

					_				_			_										
Number of Responses per Course	Enrollment	Month	Course	Course Description	Q1_1	Q2_1	Q3_1	Q4_1	Q5_1	Q6_1	Q7_1	10_1	29_1	210_1	Q11_1	Q12_1	Q13_1	Q14_	1 Q15	Q16	Q17	Q18
В	11	FALL 2015	MATH 0103 1 15FA	Basic Math	4	4	4	4	4	4	4	4	4	4	4	4	4	4	unity understanding	ener over the topic till you understand it,		
8	11	FALL 2015	MATH 0103 1 15FA	Basic Math	3	3	3	3	3	3	3	3	3	3	3	3	3	3	NO weaknesses but strength lives us all the info we need	and challenges us to do	Nothing at all keep doing what she is doi	
8	11	FALL 2015	MATH 0103 1 15FA	Basic Math	4	4	4	4	4	3	3	4	3	3	4	4	4		Strengths- Understanding the Questions Weakness- way to of a class	leaching the subject to where	is perfectly fine	
	11	FALL 2015	MATH 0103 1 15FA	Rasic Math													4		Strengths: questions get answered Weakness: class	't get mad when questions	t's all ∉ood.	
	11			Basic Math												Ĺ			strengths; good amount of math, easy to comprehend.	makes sure we understand before makes on		I like this class.
•					•	•	•	•	•	•	•	•	-	•	•	•	•	•	Very understanding: answers	Doesn't get mad when we have		I tive fluit crease.
8	11	FALL 2015	MATH 0103 1 15FA	Basic Math	4	1	4.	1	4	4	4	4	4	1	4	4	4	4	questions. Class is too long.	a lot of questions.  She goes through the work fast	Not hover so much.	This class is too long. We can go through two sections and do
8	11	FALL 2015	MATH 0103 1 15FA	Basic Math	4	3	4	4	4	4	4	4	4	4	4	4	4	4	And its many helpful	and I find her helpful	Hover less, speak	some hornework.
	11	FAIL 2015	MATH 0103 1 15FA	Barrie Manh														4	Very understanding when she teaches, makes the lessons easy to understand; I don't think there's weaknesses	Great math teacher	l think she is great!	
•	**	FALL 2013	MAIN 0103 1 13FA	Dasic Matri	•	•	•	•	•	•	•	•	•	1	•	•	•	1	there's weaknesses	Great math teacher	I (tinux zue iz Biest)	
6	9	FALL 2015	MATH 3703 1 15FA	Introduction to Statistics	3	3	3	3	3	3	3	3	3	3	3	3	3	3	The teacher is very helpful and helps you if you are willing to put the effort, sometimes it is hard to understand the sui strengths are she knows what			
6	9	FALL 2015	MATH 3703 1 15FA	Introduction to Statistics	3	2	3	3	4		3		3	3	2	3	3	4	she's talking about, very knowledgeable Weaknesses- she went to fast. It was hard to	Strengths are she is knowledgable about stats and she mades every in time.		
6	9			Introduction to Statistics	3	3	3	3	3	3	3	3	3	3	3	3	3	3		N/A	N/A	N/A
6	9	FALL 2015	MATH 3703 1 15FA	Introduction to Statistics	3	3	3	3	3	3	3	3	3	3	3	3	3	3			Don't teach one lesson while another homework assignment is due.	
6	9			Introduction to Statistics	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Dealing w/ math The strengths are knowing that the teacher knows what she is doing. Weakness is that it's a	explains ood	more details about HW	
6	9	FALL 2015	MATH 3703 1 15FA	Introduction to Statistics	3	3	3	3	3	3	3	3	3	3	3	3	3	3	real hard course	She is well knowl and nice	Manher take many a little slower	
9	13	FALL 2015	MATH 2103 1 15FA	Algebra for Teachers	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Great Instructor Fun class NO weaknesses but strength	Vers harry knowledges ble		
9	13	FALL 2015	MATH 2103 1 15FA	Algebra for Teachers	4	4	4	4	4	4	4	4	4	4	4	4	4	4	there is no need for Early	He's awesome	A+++++	Tame
9	13	FALL 2015	MATH 2103 1 15FA	Algebra for Teachers	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Childhood Development studdents to take this	ust a manner l teacher	N/A	wo need more professors like
9	13	FALL 2015	MATH 2103 1 15FA	Algebra for Teachers	4	4	4	4	4	4	4	4	4	4	4	4	4	4	He's	eactime!		we need more teachers like him.
9	13	FALL 2015	MATH 2103 1 15FA	Algebra for Teachers	4	4	4	4	4	4	4	4	4	4	4	4	4	4	The best math teacher ever This class is awesome and	Thank you	Boom!Boom! Goes the Dyname!	I'm really for Christmas
9	13	FALL 2015	MATH 2103 1 15FA	Algebra for Teachers	4	4	4	4	4	4	4	4	4	4	4	4	4	4	makes sense fashion	is kind, understanding and to work with students If I ever had a question, he	Nothing	
9	13	FALL 2015	MATH 2103 1 15FA	Algebra for Teachers		3	4	4	3	•	•	3	3	3	3	3	3	3	Weaknesses-some of the things	which help me as much as he help me as much as he help me as much as he he he cares about his highly skilled &		
9	13	FALL 2015	MATH 2103 1 15FA	Algebra for Teachers		•	4	4	4	•	4	4	•	•	4	4	4	4	the course reinforce other math courses & prepares you to be able to teach math		Hire more of him	
9	13	FALL, 2015	MATH 2103 1 15FA	Algebra for Teachers	•	•	4	•	4	4	4	4	4	4	4	4	•	4	The strenghts of the course is that we truly learn what 2 why we need to know certain things when we teach. No weaknesses.	hways prepared & knows how	N/A	lireat teacher! Learned a lot. Enjoyed his class as well.

																		- 7				
2	13	FALL 2015 MATH 2303 1 15FA	Math for Teachers II		4	4			4		•	•	•	4		4		1	I thought that he really helped me understand and like Math, I'm material was easy to understand.	things easy and understandable. Made math fun ind not	I thought everything was great other that the 3 classroom but that wasn't his fault.	I really appreciated how he did the lessons, made class fun and the way in which the material was presented. One of the best math teachers I've ever had-
2	13	FALL 2015 MATH 2303 1 15FA	Math for Teachers II	3	3	3	3	3	3	3	3	3	3	3	3	3	3	c	he was very engaged with the classroom/classroom never felt bori	ing, not constantly giving us information	just teach more than once a	The class should be taught more than one day a week. It hard to keep geometry in your memory hast one day.
																				Coach Duke is awesome. He holds counseling every Wednesday for those us who are struggling in math, He helps		
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	hate math so I have nothing positive to say about this course.	us to understand and he's very patient.	Coach Duke is awesome, no	
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4		4		4		4	4	4	4	4	4	- 1	ractions Math Weaknesses-	He explains the material well.	He is already many well.	
28	36	FALL 2015 MATH 1103 1 15FA					i							·			4	þ	Weaknesses-a lot of		use the screens so we can see	
28	36	FALL 2015 MAIN 1103 1 ISFA	College Math	•	•	•	•	•	•	•	•	•	•	1	•	•	•	ľ	homework	conplains well, agreaks loud	on each side.	I really enjoyed this class and
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4	4	3	3	4	4	4	3	4	4	4	4		time h not trying to do a lot nline	He does a great job of helping		Dukes I would take another class
28	36	FAUL 2015 MATH 1103 1 15FA	College Math	4		4	4	4	4	3	4	4	3	4	3	4	4	,	hs the instructor makes sure that we understand the material. Weakness not pates.	He knows what he is talking bout, & well an ized		
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4					4	4	4	4	4	•	4		learned math.	maierial. He put forth the effort	Not enough funny jokes. Maybe position the whiteboard a little differently so more people can see it.	
28	36	FALL 2015 MATH 1103 1 15FA																Ħ	class is very adaptable to	re cares about the students and		
28	36	FALL 2015 MATH 1103 1 15FA	·			•	•		•	•	`	•					•		Individual pace.  I have learned many things that I have not remembered or seen since early In high school.	instructor is willing to tutor and provides study sessions very	continue teachi	
			-	-								•	•		•	•	•	- [			leach the class more and not	
28	36	FALL 2015 MATH 1103 1 15FA	College Math	3	3	3	3	3	•	1	1	3	3	3	3	3	3	1	Already know the stuff	the knows what he is teaching	ust himself	
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	this is a sory attent course	ing to take time out of his time to help students	ione	He should train other Instructors here.
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4	4	4	4	4	4	4	4	4	4	4	•		H try to help everyone who is no weaknesses	He is really nice	N/A	N/A
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4	4	4	4	4	4	4	4	4	4	4	4		strengths would be	zing attitude and	N/A	Great semester
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	•	4	1	•	4		•		4	4		4	4			he went above and beyone what he needed to do and cares for his students more than other instructors. He will gladly meet with students to help them on his own time		
		NACE T COLL LINUM CTATAL	eenege traus	•	•	7	•	•	•	•	•	-	-	•	•	•	•	f	wcasness	my own time	He works part of some problems in his head, leaving a few	
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4	4	4	4	4	4	4	4	4	4	4	4	-		fin is personable	students confused	
28	36	FALL 2015 MATH 1103 1 15FA	College Math	3	3	3	3	3	3	3	3	3	3	3	3	3	3	16	ath is the weakness t was a lot to cover and you get	he knows exactly what he is	less math. More TACO's	REALLY DON'T LIKE SPIDERS.
28	36	FALL 2015 MATH 1103 1 15FA	College Math	3	3	3	3	3	3	3	3	3	3	3	3	3	3		hrew it, just it seems to be	know his stuff	be more mustured	none
																				eleat at teaching the course and		enc.
28 28	36 36	FALL 2015 MATH 1103 1 15FA FALL 2015 MATH 1103 1 15FA	College Math College Math	3	2	4	4	4	4	4	4	4	4	4 2	4	4	3			East understand everything N/A	none slow done just a little	N/A
28	36			3	3	,	,	,	,				,	-				i.	ength to cover material but	late of our and our	slow down at times, offer more	
48	30	FALL 2015 MATH 1103 1 15FA	Conege Math	1	3	3	,	3	3	•	•	1	3	3	1	4	•	Lie	eels rushed	lots of examples	tutaring	

																		sometimes can't see board; gets			
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4	4	4	4	4	4	4	4	4	4	4	4	in the point	explains material well	talk louder	
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4	3	4	4	4	4	4	4	3	4	4	4			he is dolling good	
																		The class is easy, but not			
28	36	FALL 2015 MATH 1103 1 15FA	College Math	3	3	2	3	2	2	3	3	4	2	3	2	2	2	Interesting	at one on one work	Shut the students an	Not bad
																			3571 158		
																		Itrengths; he does a good job leaching. Weaknesses-he goes	He teaches with confident &	l.	
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4		4							4			4	4	to fast in teaching the majest	he teaches with confident &	Interact with students more	
28	36	FALL 2015 MATH 1103 1 15FA	College Math	- 7	7	ī	4	4	7	ì	4	ī	4	7	7	7	4	Explains well	Teaches good	N/A	II/A
28	36	FALL 2015 MATH 1103 1 15FA	College Math	3	3	3	3	3	3	3	3	3	3	3	3	3	3	nothing	noth I don't know		
28	36	FALL 2015 MATH 1103 1 15FA		4	4	4	4	4	4	4	4	4	4	4	4	4	4	-			
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	4	4	4	4	4	4	4	4	4	4	4	4	4		,====		
																		strength-easy material;	Test .	796 175	
28	36	FALL 2015 MATH 1103 1 15FA	College Math	4	3	4	3	4	3	4	4	3	3	4	4	3	4	weakness-speed	math renius	stop teachille at light speed	
																			he always tryes to help and he		
																		1	hways goes over everything you		
1	1	FALL 2015 MATH 1303 1 15FA	Plane Trigonometry	4	4	4	4	4	4	4	4	4		4		4	4		need until you understand		he is a great teacher.
•	•	TALLEDES MARTIESOS E ESTA	riene (rigonomen)	7	•	•	•	•	•	-	•	•	,	•	•	•	7		inced differ you direct years		The state of the s
																		Course is ok just could move a			
																					was a good class just want a
6	9	FALL 2015 MATH 1513 1 15FA	College Algebra	3	3	3	3	3	3	3	3	3	2	2	3	3	3	time in the	Manuferigable of math	ere utiesties at a time	little to fast
																			-		
	_	F411 301F 141	Callege Atrohan	_											-			strengths: time of class	Screen	Paying more attention to	
ь	9	FALL 2015 MATH 1513 1 15FA	College Algebra	4	3	3	3	3	•	5	•	3	1	4	3	4	4	weakness: the subject	the material	ts who have questions.	
6	9	FALL 2015 MATH 1513 1 15FA	College Aigebra	4	4	4	4	4				4		4	4	4	4	strength- clearly explains	super sweet and wise	when writing	Best Proffessor Ever!
•	•	1 ACC 2013 AMIN 2323 2 231 A	conce region a	•	7	-	7	-	•	-	-	7	7	-	-	-	7	HEREICES.	Jopes sweet and wise		DESCRIPTION EVEN
																		1		More classroom participation.	
																		1	works to make knowledge	Perhaps he could have students	
6	9	FALL 2015 MATH 1513 1 15FA	College Algebra	3	3	3	3	3	3	3	3	3	2	3	3	3	3		it inable to all students	problems out on the board	
																			uts students first and makes		Helped me understand math for
6	9	FALL 2015 MATH 1513 1 15FA	College Algebra	4	4	4	4	3	3	4	4	2	1	3	2	3	3		meth fun		the first time
							_	_	_	_		_			_		1	He fully understands the subject			
6	9	FALL 2015 MATH 1513 1 15FA	Coffege Algebra	4	4	4	3	3	3	3	4	3	1	1	3	4	4	and he is patient	slow down.		
																		With all homework being online, grasp for me personally compared to more tangable homework because tangable homework forces Professor approach. Strengths- notes online, instructor		aybe make like 1/3 of	You're (Awesome): Dr. Fowlkes! The actual textbook for the course itself should maybe be
3	5	FALL 2015 MATH 2114 1 15FA	Calculus I and Analytic Geometry	1	4	4	4	4	Z	4	4	3	1	3	4	4	4	compassionIII	The Instructor cares!	himework more tangelie.	more understandable.
3	5	FALL 2015 MATH 2114 1 15FA	Calculus I and Analytic Geometry	4	4	4	3		3	4	4	4	3	4	3	3	3	Strengths; Really learned calculus and how to better my understanding of the summan.	can teach calculus.	t to the time of the time of	tests grade was too much. So if you didn't do well on the test your grade suffered. Maybe throw in someth to help.
																		She does a great job of breaking			
																		everything down where we can	the teaches the material very		
																		understand. She is also always	and Always ask to call or text		
_	_				_						_				_			available to help however we	help. Very caring and wants		
3	5	FALL 2015 MATH 2114 1 15FA	Calculus I and Analytic Geometry	4	4	4	4	4	3	4	4	3	3	3	4	3	3	need.	to do well.	Nothing comes to mind,	
																		Professor always ready to help	ofessor always ready to help	Not possible! My favorite	
4	7	FALL 2015 MATH 2313 1 15FA	Calculus XI	4	4	4	4	4	4	4	4	4	4	4	4	4	3	in any way purulile	in any way possible	professor BY FAR	
•	•																- 1	ength- Explained & Taught			
4	7	FALL 2015 MATH 2313 1 15FA	Calculus III	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Weakness- not enough	Completes grading quisity	lhe is Great	
4	7	FALL 2015 MATH 2313 1 15FA	Calculus III ·	4	4	4	4	4	4	4		4	4	•	4	4		has been by my side the whole way. I could not have made it	he is a wonderful professor and woman. I have been limited a lot this year and she has been by my sider the whole I could not have made it hout her.		
			_																		
										_			_						Explains clearly- paces the class		
	_						4	4	4	4	4	4	4	4	4	4	4		===11; Ataupa available to meet	L.	
4	7	FAUL 2015 MATH 2313 1 15FA	Calculus III	4	4	-	-														
4	7	FAUL 2015 MATH 2313 1 15FA	Calculus III	4	•	•	-												knowledgable over material 2		
4	7		Calculus III  Discrete Math	4	4	4	4	4	4	4	4	4	4		4	4	4		knowledgable over material &		
4 5 5	7 9 9		Discrete Math	4	4	4	4	•	4	4	4	4 4	4	4	4	4	4				
4 5 5 5	7 9 9 9	FALL 2015 MATH 3403 1 15FA	Discrete Math Discrete Math	4 4 4	•	4 4 4	4 4 4	4 4 4	4 4	4 4	4 4	4 4 4	4 4	4 4	4 4	4 4	4		well well	less homework	

																	Good at explaining and being		
5	9	FALL 2015 MATH 3403 1 15FA	Discrete Math	4	4	4	4	4	4 4	4	4	4 4	4	4	4	Ule's gleat	there when we need her		
5	9	FALL 2015 MATH 3403 1 15FA	Discrete Math	4	4	4	4	4	: :	4	4	4 4	4	4	4	Enjoying this class	Explains info well		
																	1		
																	knowledgeable and knows how		
3	6	FALL 2015 MATH 4203 1 15FA	Mathematical Statistics	4	4	4	4	4	4 4	4	4	4 4	4	4	3		to teach material well		
3	6	FALL 2015 MATH 4203 1 15FA	Mathematical Statistics	4	4	4	4	4	4 4	4	4	4 4	4	4	4	N/A		N/A	
																	Tests are being returned in a		
																	timely manner! Explains		
																1	information well. Went fast at		
3	6	FALL 2015 MATH 4203 1 15FA	Mathematical Statistics		4		4	4		•		4 4			4		first, but slowed down.		
75		FALL 2023 MINITI 1203 # 137 A	WIND INTEREST STREET,	78	3	7.	2		7 S	0.30	· 1	7.00			0.70		in st, but slowed down.		
																We do cool & exciting things in	She's super nice and always		
17	••		Mala - 1 - b		24	7/27	·	541	20 12	0.97		720 F2		4	1.2			10.75.00	
17	20	FALL 2015 NATS 2201 1 15FA FALL 2015 NATS 2201 1 15FA	Biology Lab	- 5	3	•	3	<b>3</b>	: :		1	•			4	sur labs	heipful	nothi+u l	
-	20		Biology Lab	3	3	3	*	3	3 4	4	1	3 4	•	4	•	un experiments	Good instruction	7.0	
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	3	3	3	3	3	3 3	3	3	3 3	3	3	3	N/A	N/A	N/A	N/A
																	Prepared, helpful,		
132	_			100	174	020	325	carri	2 (2	0000		an ne		0.00	0.20		knowledgeable in the subject		
17	20	FALL 2015 NATS 22011 15FA	Biology Lab	•	4	4	4	4	• •	4	•	: :	•		4	nformative	matter		
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	4	4	4	4	4		4	•	4 4	4	•	4	CHNCE	Lovely lady	N/A	accompani
17	20	FALL 2015 NATS 2201 1 15FA	Blology Lab	•	4	•	•	4		•	•	4 4	•	•	•	N/A	N/A	N/A	N/A
																She is very knowleable of			
																subject/ and we learn from			
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	4	4	4	4	4	4 4	4	4	4 4	4	4	4	confirment. No weakness	She know her stuff	none	*WSOME Class
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	4	4	4	4	4	4 4	4	4	4 4	4	4	4	Very enauging.	Very well instructing.		
																informative. Dissecting wa	s		
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	4	4	4	4	4	4 4	4	4	4 4	4		4	great allers w/ all labs.	very knowledgeable of subject	N/A	
																provided great info. Got class	to the second se		
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab		4	4	4	4	4 4	4	4	4 4	4	4	4	nvolved	errat info em class involved	N/A	n.A
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	4	4	4	4	4	: :	1	4		4	4	4	earning was fun	She made it interesting		Lin-
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	4	4	4	:	4	4 4	4	4	4 4	4	4	4				fireat course
				-							-					very hands on. Love it! It's supe	r the enord at keeping us		THE COURT
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	2	2		4	<b>A</b>		1.41	4 1		7 0.26	6346	4	ate.	interested	She does really well!	
•		PALE TOTS HATTERET LEST	and of the	-	-		7		-		-	-	-			-	Mways made sure we aren't	SHE BOCS TERMY WENT	
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	- 2	12	2	20		20 12	4	20 1	920 CV	112	4	4	til really cool activities	confused on answers	m./a	3/A
17	20	FALL 2015 NATS 2201 1 15FA		- 2	-3		3	3	3 3		3	•		- 7	- 2				10/A
17	20	FALL 2015 MAIS 22011 15FA	Biology Lab	•	•	•	•	•	•	200	•	•	9.4	•	•	Great class		N/A	"/A
1942	79-														2	trength- not a whole lot of but k; weak-too			
17	20	FALL 2015 NATS 22011 15FA	Biology Lab	•													ontime	make lectures shorter	
0.4.2				277	3	- 3	3	3	4 4	4	3	2	4	3					
17	20	FALL 2015 NATS 2201 1 15FA	Biology Lab	4	4	4	4	4	: :	4	4	4 4	:	3	4	t is fun	Bood Instruction	She's awesome	
17	20	FALL 2015 NATS 2201 1 1SFA	Biology Lab	4	4	4	4	4	: :	1	4	4 4	;	3			Bood Instruction	She's avesome	
17	20	FALL 2015 NATS 2201 1 1SFA	Biology Lab	•	4	4	4	4	: :	1	1	4 4	•	3		t is fun		She's awesome	
				•	4	4	4	4	: :	1	1		:	3	4	t is fun read off slides(w) all informatio	n		
17 21	20	FALL 2015 NATS 2201 1 15FA FALL 2015 NATS 2203 1 15FA	Biology Lab  Biology	3	3	4	3 4	3 4	3 3	3	3	4 4	3	3 4		t is fun		She's awesome  make more interesting	h/A
				3	3	3	3	3	: :	3	3	3 3	3	3 4	4	t is fun read off slides(w) all informatio	n		h/A
				3	3 4	3	3 4	3 4	: :	3	3	3 3	3	3 4	4	t is fun read off slides(w) all informatio	n Marin University	make more interesting	bJA
21	26	FALL 2015 NATS 2203 1 15FA	Biology	3	3 4	3	3 4	3 4	3 3	3	3	3 3	3	3	4	t is fun read off slides(w) all informatio	n wenty three livendly, can keep the class	make more interesting not read straight from the	n/A
21	26	FALL 2015 NATS 2203 1 15FA	Biology	3 4 3	3 4	3 4 3	3 4 3	3 4 3	3 3 4 4 3 3	3	3	3 3 4 4 3 3	3 4 3	3 4 3	4	it is fun read off skides(w) all informatio movented clearly(t).	n wenty three livendly, can keep the class	make more interesting not read straight from the powerpoint.	h/A
21 21	26 26	FALL 2015 NATS 2203 1 15FA FALL 2015 NATS 2203 1 15FA	Siology Biology		3 4	•	3 4 3	3 4 3	3 3	3	3	3 3	3 4	3	3	t is fun read off slides(w) all informatio	livendly, can keep the class locused & interested	make more interesting not read straight from the gowerpoint. Tell in more of an explaining	
21 21 21	26 26 26	FALL 2015 NATS 2203 1 15FA FALL 2015 NATS 2203 1 15FA FALL 2015 NATS 2203 1 15FA	Biology Biology		3 4 3	•	3 4 3	3 4 3 4	3 3	3	3	3 3	3 4	3	3	t is fun  read off slides(w) all information provinted clearly tt.  www.arms are the recognitions are the recognitions.	hern the class licenses and the class licenses and the class licenses and the class licenses are the class light in the class l	make more interesting not read straight from the powerpoint. Fell in more of an explaining manner	
21 21 21	26 26	FALL 2015 NATS 2203 I 15FA	Siciogy Siciogy Siciogy Biology		3 4 3	3 4 3	3 4 3 4 4	3 4 3 4 4	3 3	3	3	3 3 4 4 3 3	3 4	3 4 3	3 4 3	t is fun  read off slides(w) all information movemed clearful()  w/v arms are the movement a little slow	livendy, can keep the class focused & interested	make more interesting not read straight from the powerpoint. Tell in more of an explaining manner less boring assessments.	
21 21 21	26 26 26 26	FALL 2015 NATS 2203 1 15FA FALL 2015 NATS 2203 1 15FA FALL 2015 NATS 2203 1 15FA	Biology Biology		3 4 3	3 4 3	3 4 3 4 4	3 4 3 4 4	3 3	3	3	3 3 4 4 3 3	3 4 4	3 4 3 4	3 4 3 4	t is fun  read off slides(w) all information provinted clearly tt.  www.arms are the recognitions are the recognitions.	livendy, can keep the class focused & interested	make more interesting not read straight from the powerpoint. Fell in more of an explaining manner	sou're hot
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21 21 21 21 21 21	26 26 26 26 26 26 26	FALL 2015 NATS 2203 1 15FA	Biology Biology Biology Biology Biology		3 4 3	3 4 3	3 4 3 4 4	3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3	3	3	3 3 4 4 3 3	:	3 4 3 4	3 4 4 4	t is fun  read off slides(w) all information with the clear fulf.  Wy arms are the money.  a little slow  Its all grand	were through livenely, can keep the class locuted & interested through livenely arms task intelligible, things the contained they peak	make more interesting not read straight from the powerpoint. Tell in more of an explaining manner less boring assumption to do not shamps slow down some when lecturing	sou're hot
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	23	FALL 2015 NATS 2101 1 15FA									_	_						itrengths-very smart weakness-		1	147000
13			Earth Science Lab	4	4	•	4	4	4	1	4	4	4	4	4	4	4	idmetimes hard to understand	Information	communicate more individually	He is a really good teacher.
13	23	FALL 2015 NATS 2101 1 15FA	Earth Science Lab	4	4	4	4	4	4	4	4	4	4	4	4	4	4		i e		
																				Try connecting w/ the students	
13	23	FALL 2015 NATS 2101 1 15FA	Earth Science Lab	3	1	3	3	3	4	1	3	1	3	4	4	1	1	N/A	N/A	more effectively.	n/A
																			mery knowledgeable in his area		
13	23	FALL 2015 NATS 2101 1 15FA	Earth Science Lab	4	3	4	3	3	4	4	4	3	3	4	4	4	4	It's basic.	of study.	unicate more cleam.	
13	23	FALL 2015 NATS 2101 1 15FA	Earth Science Lab	4	1	4	1	1	4	4	1	1	4	2	4	4	1		4	municate better via email	
13	23	FALL 2015 NATS 2101 1 15FA	Farth Science Lab	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
13	23	FALL 2015 NATS 2101 1 15FA	Earth Science Lab		4	4	4	4	4	4	4	4	4	4	4	4	4		knowled wable	more communication	
13	23	FALL 2015 NATS 2101 1 15FA	Earth Science Lab	- :	- 2	7	- 7	4	4	4	7	- 2	7	7	7	7	- 7		min intellernt		
13	23	FACE 2013 HA13 2101 1 13FA	Earth Science Cab	•	•	•	•	•	•	•	•	•	•	•	•	•	•		intelligent.	go over more in lab	
																		Independent working; a little	the Control of the Co	Soney	
13	23	FALL 2015 NATS 2101 1 15FA	Earth Science Lab	3	3	3	3	3	3	3	3	3	3	3	3	3	3	confusing sometimes hands on	smart	be a little more explanation	
																		we learn a lot, work isn't very			4.5
13	23	FALL 2015 NATS 2101 1 15FA	Earth Science Lab	3	3	3	3	3	3	3	3	3	3	3	3	3	3		Intellent	Have us do more experiments	Nahmat is awesome
				,	-	-	-	•	_	_	_	_	-	_	-	-	-		knowledgable; hard to	, and and a coperiments	
13	23	FALL 2015 NATS 2101 1 15FA	Earth Science Lab														4		understand	react demand	
15	23	FALL 2013 HATS 2101 1 15FA	Earth Science Lab	•	•	•	•	•	•	•	•	•	•	•	•	•	•	s- covers lots of information	understand	speak slower!	
																		1		communication with	
																				Mudents never replies to any	
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	4	2	4	4	4	4	4	4	4	4	4	4	Good course to take & learn a last	ery smart	emails.	NA
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	4	4	3	3	4	4	4	3	4	4	4	3		s knowie e		
																		strengths- very smart weakness*			
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science		4	4		4	4	4	4	4				4	4		iii is very smart	Ready to his emails	I loved this class.
	30	TALL LOID HANDELDS I LOTA	E E E E E E E E E E E E E E E E E E E	•	•	-	-	-	-	7	7	•	-	-	-	-	_		15 very sinert	Challenge the students. No open	HOVEL ONS GIESS.
																		distribution of the second			
																		ites at hs-it had good material;		book tests and make the lab	
																		waknesses-could have gone		presentation thing not optional.	
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	4	4	4	4	4	4	4	4	4	4	3	4	into more details	He's kind.	Thus is college	Tou're super sweet
																		covers lots of material; hard to			
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	4	4	4	4	4	4	4	4	4	4	4	4	understand prof. sometimes	min knowledgable	speak slower	
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	3	3	3	3	4	3	1	3	3	3	1	3	3	3		knowledgeable, finishly		
		17462025 141102205 2 20111		•	-	_	-	-	-	-	-	-	-	-	•	-	-	His knowledge is his strength	anowicogcuoic, manage		
																			With the state of		
									_		_							and his weaknesses I couldn't	ils knowledge & his service.He	really enjoy learn a lot with Mr-	
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	4	4	4	4	4	4	4	4	4	4	4	4	tell,	s is fine the way he is	Rahmat- I love the professor	
																				Perhaps Rahmat is too	
																				intelligent, he seems to be	
																				forcing himself down to our	
																		The course offers a wide		level. He could also	
																			And and I also be a second		
																			Automat is obviously very	communicate more clearly	
						_		_								_			melligent and knows what he's		All of that said, I'm glad Rahmat
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	3	3	4	3	4	4	4	4	4	4	2	3	4	Perhaps too wide-	lalking about.		was my professor.
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	3	3	3	4	4	4	3	3	3	3	4	4	4	3	always on time	Had Julies	Study guide	
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	4	4	4	4	4	4	4	4	4	4	4	4		Qual lad		Love it
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
																		strengths good information			
								3	3	3	3				3	3	3		50	ther visual aids	
17	24	EAL! 2015 NATE 2102 1 2554	Earth Science			-										3					
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	3	3	3	3					3	3	3		-		Weakness: hard to understand	inows material	THE TISOS SHOT	
17 17	36 36	FALL 2015 NATS 2103 1 15FA FALL 2015 NATS 2103 1 15FA	Earth Science Earth Science	3	3 4	3	4	3	4	4	4	3	3	3	3	4	4		inows material	the visus ses	
				3 4	3 4											4	4	You could do hands on work;	inows material	THE TOTAL PROPERTY.	
				3 4	4											4	4		nows material	THE TIMES AND	
				3 4	3 4											4	4	You could do hands on work;		N/A	
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	3	4								3	4	•	You could do hands on work; some of the material was hard	knowled & nice!		
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	3	4								3	1	•	You could do hands on work; some of the material was hard		N/A	
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	3	4								3	1	•	You could do hands on work; some of the material was hard		N/A he should work on his	
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	3	4								3	1	•	You could do hands on work; some of the material was hard		N/A he should work on his interaction w/students, he	
17	36	FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	3	4								3	1	•	You could do hands on work; some of the material was hard		N/A he should work on his interaction w/students, he needs to be more careful w/	
17	36	FALL 2015 NATS 2103 1 15FA FALL 2015 NATS 2103 1 15FA	Earth Science Earth Science	4	4	3	4			4	•				3	1	•	You could do hands on work; some of the material was hard		N/A he should work on his interaction w/students, he needs to be more careful w/ attendence and identifying what	
17	36 36	FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA	Earth Science	4	4	3	4			4					3	4	4	You could do hands on work; some of the material was hard		N/A he should work on his interaction w/students, he needs to be more careful w/	N/A
17	36	FALL 2015 NATS 2103 1 15FA FALL 2015 NATS 2103 1 15FA	Earth Science Earth Science	4	3	3	3	4	4	4	•	4	3	3	3	4	4	You could do hands on work; some of the material was hard to follow	knowled a size & nice!	N/A he should work on his interaction w/students, he needs to be more careful w/ attendence and identifying what	N/A
17	36 36	FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA	Earth Science  Earth Science  Earth Science	4	3	3	3	4	4	4	•	4	3	3	3	4	4	You could do hands on work; some of the material was hard to follow	knowled a size & nice!	N/A he should work on his interaction w/students, he needs to be more careful w/ attendence and identifying what	M/A
17	36 36	FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA	Earth Science  Earth Science  Earth Science	4	3	3	3	4	4	4	•	4	3	3	3	4	4	You could do hands on work; some of the material was hard to follow	knowled a size & nice!	N/A he should work on his interaction w/students, he needs to be more careful w/ attendence and identifying what	M/A
17 17 17 17	36 36 36 36	FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA	Earth Science  Earth Science  Earth Science Earth Science	4	3	3	3 3 4	1 4	4	4	•	4	3	3 3 4	3 3 2 4	3 4	3 4	You could do hands on work; some of the material was hard to follow  N/A  seems exactly bie my earth	knowled purise & nice!	N/A he should work on his interaction w/students, he needs to be more careful w/ attendence and identifying what his objectives are for this course.	N/A
17	36 36	FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA  FALL 2015 NATS 2103 1 15FA	Earth Science  Earth Science  Earth Science Earth Science	4	3	3	3	4	4	4	•	4	3	3	3	4	4	You could do hands on work; some of the material was hard to follow  N/A  seems exactly like my earth	knowled a size & nice!	N/A he should work on his interaction w/students, he needs to be more careful w/ attendence and identifying what	M/A

	6	FALL 2015 PHYS 2104 1 15FA	Physics I (including tab)	4	3	4	4	4	4	3	4			3	3	4			Very knowledgable and understanding of material and	average isn't so high considering physics is one of the hardest	Do more lecturing. Even though the lectures are boring. We and cover material more thoughly if you lectured more.
	6	FALL 2015 PHYS 2104 1 15FA	Physics I (including Lab):	•		4	4	4	4	4	4	4		4	4	4	4	ronment for learning	He is patient, makes sure son the same page. sery understanding. An overall		
4	6		Physics I (including Lab)	3	3	3	4	3	3	3	3	3	3	3	3	3	3	I liked the use of visual images and hands on labs.	ind works hard to make sure the students do also	Hold students to the assigned due dates; Felt we could have been challed a little more	Great Class!
•	6		Physics I (including Lab) Physics I (including Lab)	1	4	4	4	4	4	4	4	1	4	4	4	4	1	Informative; doesn't seem very	ry understa utwo	stricter and put grades in on	
2	3	FALL 2015 PHYS 2211 1 15FA	Physics I (including Lab)	3	3	3	4	4	2	4	4	4	4	3	4	4	1			time	
2	3	FALL 2015 PHYS 2211 1 15FA	Physics   (including Lab)	3	3	3	3	3	3	3	3	3	3	3	3	3	1				l enjoyed lab a lot. No problems
																		trengths: good explanation;		Teach at a faster spped. Instead	
2	3		Modern Physics	3	3	3	3	2	3	3	3	3	3	1	3	3	3	Weakness: slow speed	Good with height when needed	keep the ball rolling.	
2	3		Modern Physics	4	3	4	4	4	3	4	4	4	3	3	3	3	1		Incoming and competative	put et ales in d2l	
2	3	FALL 2015 PHYS 3133 1 15FA	Electromagnetism	3	2	2	4	3	1	4	3	2	2	1	1	3	2			V - 100	
2	3	FALL 2015 PHYS 3133 1 15FA	Electromagnetism	3	3	4	4	4	3	4	4	1	4	4	4	4	1			put midel in d2i	
1	4	FALL 2015 MATH 1513 W1 15FA	College Algebra	4	4	3	4	4	4	3	3	4	3	4	4	4	4				

3.73 3.66 3.63 3.68 3.66 3.63 3.66 3.71 3.67 3.57 3.534 3.597 3.669 3.627

Overall mear 3.65

Min 3.53 Q11 The speed in which material was covered in this class was reasonable.

Max 3.73 Q1 The instructor was well prepared for class on a regular basis.

Number of Responses	Enrollment	Month	Instructor	Course Description	Course	Q1	02 0	13 0	4 0	5 Q	6 0	7 Q	8 (	29 0	10 Q	11 0	212	Q13	Q14	Q15	Q16	Q17	Q18
per Course							_			1	4	1				1							
14 14	22 22	Spring 2016 Spring 2016		College Math College Math	MATH 1103 1 165P MATH 1103 1 165P	3	3	3			-		3	3	3	3	3	3	3	Nothing he is doing great teaching class Great course	gives all the info N/A	Nothing at all N/A	
14	22	Spring 2016	Allen Dukes	College Math	MATH 1103 1 16SP	4	3	4	3	4	4	3	4	4	4	4	3	4	3	takes awhile to get use too. I am just horrible at math. But Professor	Always eager to help, pulled me aside multiply times to see if I needed help	n/a	n/a
14	22	Spring 2016		College Math	MATH 1103 1 165P	4	3	4	4	3	4	4	4	3	4	4	4	4	4			maybe if the class was more	
14 14	22 22	Spring 2016 Spring 2016		College Math College Math	MATH 1103 1 165P MATH 1103 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	4	details	the instructor	interactive	
14	22	Spring 2016 Spring 2016	Allen Dukes	College Math	MATH 1103 1 165P	4	4	4	•	•			4	4			4	4	4	Book is expensive Good instructor	Dukes knows his stuff & teaches it in very understandable/prac tical ways. explains things well	nothing	N/A
14	22	Spring 2016		College Math	MATH 1103 1 16SP	4	4	•	4	4	4	4	4	4	4		4		:	strengths: learned a lot throughout this	instructor was super awesome & was	N/A	Had a great semester, thanks for everything
							•		•	•	•		•	•		•	•	•	!	strengths-covered a lot of material; weaknesses-moved	knows the material		io etc.yamg
14 14	22 22	Spring 2016 Spring 2016		College Math College Math	MATH 1103 1 165P MATH 1103 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4		pretty quickly It's math	and is helpful good teacher	slow down a little bit	
14	22	Spring 2016		College Math	MATH 1103 1 165P	4	4	4		-			4	4	4	4	4	4			good teserier		
14	22	Spring 2016		College Math	MATH 1103 1 16SP	4	4	4	4			4	4	4	4		4	4		Great teacher Dukes is a great professor	Explains everything well in detail	Great Teacher	I really love having Dukes as a professor
5	8	Spring 2016		College Algebra	MATH 1513 1 16SP													4	1	strengths- went over everything.		Just keep doing what you're doing.	
5	8	Spring 2016		College Algebra	MATH 1513 1 16SP	4	4	4	4	4	4	4	•	4	4	4	4	4	4		strengths- lots of notes; weaknesses- hard information to	strengths-speaks loud & clear. Weaknesses-goes to fast, needs to slow down.	
·	-												•				•	·		spent & the materials	The instructor knows		I love the instructor, He is a
5	8	Spring 2016	Allen Dukes	College Algebra	MATH 1513 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	4	were appropriate.		Be more interactive.	very great teacher!
5	8	Spring 2016	Allen Dukes	College Algebra	MATH 1513 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	He's awesome and nice	he's awesome		
5	8	Spring 2016	Alien Dukes	College Algebra	MATH 1513 1 16SP	4	4	4	4	4	4	4	4	1	4	4	4	4	4	To fast, very confusing The course is detailed. Too detailed. I'll never	Porter is very	don't stand in front of the board!!†	N/A
5	6	Spring 2016	Amanda Porter	Biology	NATS 2203 1 165P	4	4	4	4	4	4	4	4	4	3	3	3	4				Clearer communications regarding homework.	

5	6	Spring 2016 Amanda Porter	Biology	NATS 2203 1 165P	3	3	3	3	3	3	3	3	3	3	3	3	3	Information not 3 covered well enough	Interesting to listen	cover less	
•	•	Spring 2010 / Tilalina i orter	5.5.56		-		-	-	-	-					•						
																		good class, just wen			
																		over stuff really fast and class time was	knows what she's	Maybe have more activities	
5	6	Spring 2016 Amanda Porter	Biology	NATS 2203 1 165P	4	3	3	3	4	4	4	3	2	2	1	4	3			that keep us engaged	good semester
-		•																Good amount of tim			
5	6	Spring 2016 Amanda Porter	Biology	NATS 2203 1 165P	4	4	4	4	4	4	4	4	4	4		4	-	4 spent!			
5	6	Spring 2016 Amanda Porter	Biology	NATS 2203 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	•	-1	
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 165P	4	4	4	3	4	3	3	3	4	3	4	3	4	4 Awesome person strengths:	Awesome person	shorter class	
																		knowledgable			
																		Weaknesses: time			
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 limit	knows her stuff	N/A	Great job
																		strengths; flows wel	1		
																		lots of info	•	Make sure everyone is	
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 Weakness: duration	very smart	paying attention	love the class
					_		_	_	_	_	_				_	_			; She's great. ( love	She 's great	
13 13	17 17	Spring 2016 Amanda Porter Spring 2016 Amanda Porter	Biology and Lab Biology and Lab	NATS 2204 1 16SP NATS 2204 1 16SP	3	3	3	3 4	3	3	3 4	3	3 4	4	3 4	3 4	3 4	3 weakness-test 4 She's great	Esther She's great	She's great	She's great
13	17	Spring 2010 Amanda Forter	BIDIORY AND LAD	HA13 2204 1 103F	7	7	-	-	-	-	7	•	•	•	-	7	•	strengths were that	Sile 3 great	Sinc 3 Breat	5 v 6
																		the class was very	The instructor knows		
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	4 organized.	what she is teaching.		I loved both lab & class.
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 N/A	very knowledgable	No group projects	N/A
																		Very reasonable but time is very			
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 inconvinient	Easy to reach	More interaction	
																			Good job explain		
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 Fun, interesting	information	N/A	
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 16SP	4	4	4	4	4	4		4	4	4	4	4	4	4		Keep doing what you're doing	
13	17	Spring 2010 Amanda Porter	Sidiogy and Cab	14413 2204 2 2001	•	7	•	•	•	7	•	•	•	7	•	7	•	She covers	She's well spoken		
																		everything and	and knows the		
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 16SP	3	3	3	3	3	3	3	3	3	3	3	3	3		material.		
																		strengths-cut stuff open; weakness-	She cool and explains		
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4		everything		
																		strengths: effective			
13	17	Spring 2016 Amanda Porter	Biology and Lab	NATS 2204 1 165P		4	4	4	4	4	4	4	4	4	4	4	4	teaching methods, 4 personable	Awesome teacher!		
15	17	Spring 2010 Amanda Porter	Bibliogy and Cab	HA13 2204 1 103F	•	7	-	•	•	-	•	•	•	•	•	7	7	4 personable	nacione teather	Rely less on online for	
																			very knowledgable	homework. Maybe do more	
3	4	Spring 2016 Carol Fowlkes	Calculus II	MATH 2214 1 165P	4	3	4	4	4	1	4	4	3	4	3	3	4	4	with material	paper homework.	
																			She explains		
																			everything and help		
																		everybody	you at anytime when		
3	4	Spring 2016 Carol Fowlkes	Calculus II	MATH 2214 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	4 participate in class	you don't understand		
																			She knows math and		
																		She teaches good	can teach in many		Always use WebAssign. Stay
3	4	Spring 2016 Carol Fowlkes	Calculus II	MATH 2214 1 16SP	3	3	4	4	3	4	3	3	3	4	3	4	4	-	different ways.		away from MyMathLab.
																		we go over everything beofre w	a Sha avnlaine		
4	7	Spring 2016 Carol Fowlkes	Linear Algebra	MATH 3103 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4				
•	•	The same and touries						•	,		·		•		•		•				USE WEBASSIGN NOT
4	7	Spring 2016 Carol Fowlkes	Linear Algebra	MATH 3103 1 165P	3	3	3	4	4	3	4	4	3	3	4	4	3	4			MYMATHLAB
4	7	Spring 2016 Carol Fowlkes	Linear Algebra	MATH 3103 1 165P	4	4	4	4	4	4	4	4	4	4	4	4					
4 16	7 21	Spring 2016 Carol Fowlkes Spring 2016 Carol Fowlkes	Linear Algebra Introduction to Statistics	MATH 3103 1 165P MATH 3703 1 165P	4	3	4	4	4	4	4	4	4	4	4	4	4	4 4 online homework	in-class help	N/A	N/A
10		Shimile Foro coloi Louivez	Double of the Statistics		•	•	•	•	-	•	-	•	,	•	-	-	•	Difficult course, goo			
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	4	3	4	4	4	4	4	4	3	3	3	3	4	2 teacher			

16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 gasier with exel	and was always helpful. She made it easier to understand the material.		Dr. Fowlkes is truly the smartest & most knowledgable professor
16	21	Spring 2016 Carol Fowikes	Introduction to Statistics	MATH 3703 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	taking out the ma	th helpful, knowledgable		every subject.
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	3	4	3	3	4	4	4	3	4	3	4	3	4	3	Extra effort to explai	n	
							-									-		open door policy			
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	4	4	3	4	4	4	4	4	4	4	4	4	4		for Wants the students to learn.	More work to understand.	
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	4	4	4	4	4	4	4	4	4	4	4		4	•	Very organized		
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	4	always prepared for class and answer the question in the class room and outside of the classroom		
																		good variety of th			
16 16	21 21	Spring 2016 Carol Fowlkes Spring 2016 Carol Fowlkes	Introduction to Statistics Introduction to Statistics	MATH 3703 1 165P MATH 3703 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4		knowledgable well organized		Awesome
10	21	Spring 2010 Calcul rowikes	introduction to statistics	MATT 3703 1 103F	7	7	•	•	•	-	7	•	•	-	7	7	7	Easy to grasp,	well organized		Musonic
																		content was well	Easy to talk to, fun in		
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 taught	class Explains material		
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 165P	3	4	4	4	3	4	4	4	4	4	4	4	4	4	well		None
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 Everything	Everything		
																		explains the subje	gets class to ct understand the		
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4		subject at hand		
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	4	4	4	4	4	4	4	4	4	4	4			•	•		
16	21	Spring 2016 Carol Fowlkes	Introduction to Statistics	MATH 3703 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
1	1	Spring 2016 Carol Fowlkes	Differential Equations	MATH 4013 II 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4		Everything	false, she is perfect	N/A
3	4	Spring 2016 Carol Fowlkes	Abstract Algebra	MATH 4103 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 She's fantastic	Everything		everyone loves Fowlkes
3	4	Spring 2016 Carol Fowlkes	Abstract Algebra	MATH 4103 1 165P	4	4	4	4	4	1	4	4	4	4	4	4	4	4 Carol is awesome		Group test	Love Carol!
3	4	Spring 2016 Carol Fowlkes	Abstract Algebra	MATH 4103 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	٠	4 She's Wonderful!	Everything	She's Perfect	Attititititi
9	14	Spring 2016 Douglas DeCarlo	Math for Teachers I	MATH 2203 1 165P	4	3	4	4	4	4	4	3	4	4	3	3	4	valuable material help you on the C Weaknesses-its i	ss; Definitely knows his to stuff; understands GET when we need to miss class, encouraging, fun	Maybe cut back a little on the stories	
																		C: Lundamenald a	ath He is one of my mos		
																			sy. favorite and best		I enjoyed it and feel more
9	14	Spring 2016 Douglas DeCarlo	Math for Teachers I	MATH 2203 1 16SP	4	4	4	4	4	4	4	3	4	4	4	4	4	4 W: None	math teachers ever!	He is great.	confident in math.
q		Codes 2015 Develop DeCode	Adoth for Treeton (	144TH 2203 1 1550				4			4	4	4	4				4		Burst out in song more often	
y	14	Spring 2016 Douglas DeCarlo	main for Feathers I	MATH 2203 1 165P	4	4	4	•	4	4	4	•	4	•	4	4	•		very intelligent Teaches math so easily understandable Lets us know why we gth; need to know this	Burst out in song more often	'
9	14	Spring 2016 Douglas DeCarlo	Math for Teachers I	MATH 2203 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 weakness-none	information.	N/A	Great class! Learned a lot.
9	14	Spring 2016 Douglas DeCarlo	Math for Teachers I	MATH 2203 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	Made concepts e- to understand, Refreshed my memory on math concepts I hadn't 4 in awhile.	nad Very funny & made math class enjoyable	N/A	
-									,								-			-	

She was available majority of the time

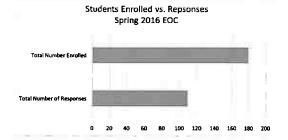
																		strengths- HW	11-11		C
9	14	Spring 2016 Douglas DeCarlo	Math for Teachers 1	MATH 2203 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 Weakness-subject	He's great! Awesome at	He's awesome!	Great professor1
	14	Series 3015 Develor DeCade	Math for Touchers I	MATH 2203 1 165P			4	4	4			4	4	4	4	4	4	Great class, Great 4 professor	explaining. Pay him more!	he's effective enough	Raise his pay!!
9	14	Spring 2016 Douglas DeCarlo Spring 2016 Douglas DeCarlo		MATH 2203 1 165P	4	4	4	4	4	4	4	7	4	4	7	7	4	4 professor	more	He 2 chective enough	BEST MATH PROF. EVER!
9	14	Spring 2016 Douglas DeCarlo		MATH 2203 1 165P	4	4	4	4	4	4	7	4	4	4	7	4	7	7		Love him!	DEST MATTER TO SERVER
,	14	Spring 2016 Douglas Decario	Matilior reachers i	MAIN 2203 1 103F	•	•	•	•	-	-	7	7	-	•	7	•	7	•	The instructor was	COVE IIIIII	
																			very helpful and		I'm not sure that I am the
																			graded all		biggest fan of Pearson
																			assignment with		MyMathLab, but everything
1	4	Spring 2016 Olivia Bates	Business Math	MATH 2503 W2 165P	4	4	4	4	4	4	4	4	4	4	4		4		exceptional speed.		ended up working out fine.
	•	Spring 2018 Onvia pares	DUNINESS MIAU)	MATH 2303 WZ 103F	-	•	7	-	•	4	7	•	7	•	-	7	•	•	exceptional speed.		chaca ap working out this.
																		Online courses help			
																		to speed up the			
																		degree track. I have			
																		appreciated being			
																		able to participate in			
																		them. I can work at			
																		my own pace and			
																		receive instruction			
																		when needed. One			
																		weakness was not	Responding to emails	Posting the videos for	
																		having the video	in a timely manner	instruction before the middle	:
																		instruction online	and explaining the	of the week that the	
4	7	Spring 2016 Olivia Bates	College Algebra	MATH 1513 W1 165P	3	3	3	3	4	4	4	4	3	4	4	4	4	4 ahead of time.	assignments.	assignment is due.	
		-,	• •																-		
																		This course is not a			
																		good idea for anyone	•		
																		that struggles with			
																		algebra, unless they			
																		have someone close			
																		by and in person wh	0		
4	7	Spring 2016 Olivia Bates	College Algebra	MATH 1513 W1 16SP	3	3	3	3	3	2	3	3	2	3	2	2	3	3 is able to help.			
																				She was not very helpful and	
																		Its fast paced and		•	Disappointed in Olivia Bates
			- "					_	_		_	_	_	_	_	_	_	well laid out on the	She responds to	feel like MACU is not the	as instructor. Other than that
4	7	Spring 2016 Olivia Bates	College Algebra	MATH 1513 W1 16SP	1	1	1	2	3	3	3	3	3	3	3	3	3	3 mymathlab.	emails well	right University for me.	the class was fine.
																		I loved the fact that i	e Chair was halaful		
	7	Spring 2016 Olivia Bates	College Algebra	MATH 1513 W1 16SP						4			4	4	4	4	4	4 is offered online. /	and understanding.		
1	1	Spring 2016 Rahmat Rahmat	Concepts of Physics	PHYS 1133    165P	3	3	3	3	3	3	3	3	3	3	3	3	3	3 Awesome	Awesome	Awesome	Awesome
1	1	Spring 2016 Rahmat Rahmat		PHYS 2103    165P	3	3	3	3	3	3	3	3	3	3	3	3	3	3 Awesome	Awesome	Awesome	Awesome
•	•	Spring 2010 Railmat Railmat	Filysics i	FH13 2103 II 103F	3	•	•	•	•	•	•	3	•	•	•	3	•	JAWERONIE	So kind, extremely	A THE SOUR	A A COUNTY
																			knowledgable,	Be more strict with syllabis	
2	4	Spring 2016 Rahmat Rahmat	Physics II (including lab)	PHYS 2204 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Always prepared.	rules	Hove Dr. Rahmatl
•	•	Spring 2020 Hallingt Hamilet	,, ( saulg 100)			•	-	-	•	•	•			-	•						
																		strengths is the class			
																		size, being so small			
																		the professor can			
																		actually teach us and	He gienully cares		
																		help if we don't	about us learning the		
2	4	Spring 2016 Rahmat Rahmat	Physics II (including lab)	PHYS 2204 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 understand material	-		
1	2	Spring 2016 Rahmat Rahmat	Classical Mechanics	PHYS 2223 1 165P	4	3	3	4	4	4	4	4	3	4	4	4	4				
3	13	Spring 2016 Rahmat Rahmat		NATS 2101 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	4 N/A	N/A	N/A	N/A
3	13	Spring 2016 Rahmat Rahmat	Earth Science Lab	NATS 2101 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4 N/A	N/A	N/A	N/A
		-																			
																		It helps you know	he is always		
3	13	Spring 2016 Rahmat Rahmat	Earth Science Lab	NATS 2101 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	4 how the world work	prepared.		
			-															Goes through			
																		material too quickly.			
																		He knows what he is		Try several different ways to	
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 165P	3	3	3	4	4	4	4	3	2	3	1	2	3	3 teaching.	knowledgable.	explain things.	

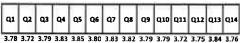
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 165P	4	3	4	4	4	4	3	4	4	4	3	4	4	4	I really enjoyed how we actually covered material and learned things everyday. I did not like just doing 4 slides though.	He was very knowledgable	Do something other than slides.	I am grateful that we were able to use our notes.
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	strengths: funny, not boring Weaknesses: 4 too long	always gives an example, very funny.		
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4		Is fair to all students with policy. When asking questions is eager to help you fully understand. Is also willing to help 4 after class.	N/A	N/A	N/A
-				1713 2103 1 103	•	•	•	•		•			•	•	•	•	•	•	He has a entertaining class, there are no weaknesses of this	He is great at helping		
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4 course.	any student.	N/A	he is Great!
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 16SP	4	4	4	4	4	4	4	1	4	4	4	4	4	•	meaningful content 4 & efficient/effective.	nice Dr. Rahmat is awesome. Very knowledgable and passionate about the course. He makes the course fun and	accent	
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	•	4 I have no complaints He has an informative and	engaging	no complaints	
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4 entertaining dass.	He is always positive.		He is AMAZING!
12	20	Spring 2016 Rahmat Rahmat	Earth Scionce	NATS 2103 1 165P				4	4	4	4	4				4	4		Strengths- teaches with joy Weakness- 4 talks long	funny/easy going	nothing	
		, -			3	•	3	4	4	•	4	4	4						-	knowledgable, helpful	_	N/A
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 16SP	,	3	3	•	•	•	4	•	•	3	3	3	•	•	3 Informative  Very engagin, learning environment	Humble, includes Christ in all his lectures,	N/A	Rahmat is the reason why I'm going back to MACU next year. Incredible man of God,
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 165P	4	4	4	4	4	4	4	1	4	4	4	4	4	•	4 ON POINT! Great Information and very important content.(PRO)	his students	N/A	good example
12	20	Spring 2016 Rahmat Rahmat	Earth Science	NATS 2103 1 16SP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Content isn't that 4 exciting(CON)		He is extremely effective already!	
2	s	Spring 2016 Rahmat Rahmat	Astronomy Lab	NATS 2601 1 165P	4	4	4	4	4	4	4	4	4	4	4	4	4	•	It needs more instructions. Explanation of how	& good at presenting	I believe he is already doing a great Job, he works hard on our lessons, & makes sure they are ready every class period.	
			-																to do the work. It is not very organized. It has helped me understand new		Teach more on the lab work. Keep up with students work better and know what he has	
2	5	Spring 2016 Rahmat Rahmat	Astronomy Lab	NATS 2601 1 165P	2	2	3	4	4	2	2	4	4	4	4	4	4	•	1 things.	Open to questions.	covered so far in class.	

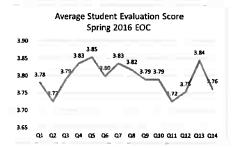
learned a lot in this Spring 2016 Rahmat Rahmat Astronomy NATS 2603 1 16SP 4 course. "read as above" The professor was knowledgable of material and approachable with questions. He went He knows what he is He needs to slow down when He is very smart and knows over course material teaching. He allows teaching. Use other what he is teaching. He goes too quickly. The us to ask questions. resources besides over too much material in a Spring 2016 Rahmat Rahmat Astronomy NATS 2603 1 16SP short amount of time though. 18 powerslide. Be confident. 4 3 1 1 3 3 course is too long. He is humble. Spring 2016 Rahmat Rahmat Astronomy NATS 2603 1 165P weakness- maybe make the class more fun, the lectures got boring. Strength-The ability to use our His ability to work resources on quizzs with the class on due Spring 2016 Rahmat Rahmat Astronomy NATS 2603 1 16SP 3 3 3 3 3 3 3 3 3 3 3 and exams. The strengths are the His good teaching Spring 2016 Rahmat Rahmat Astronomy 18 NATS 2603 1 16SP 4 equipment. skills I think he does good aiready. Spring 2016 Rahmat Rahmat Astronomy 18 NATS 2603 1 16SP 3 3 3 3 3 3 3 3 3 18 Spring 2016 Rahmat Rahmat Astronomy NATS 2603 1 16SP 3 4 4 3 3 3 4 3 4 3 3 4 3 4 Covers some material repeatedly; not sure. He does pretty well, although Great content, if that is totally maybe don't spend so much 9 Spring 2016 Rahmat Rahmat Astronomy NATS 2603 1 16SP 4 interesting class. necessary. time on one chapter. It is a very good class. Great teacher. He It is easy to knows what he is understand most of doing. He is very Spring 2016 Rahmat Rahmat Astronomy NATS 2603 1 16SP 4 the terms. helpful. None

very good professor,







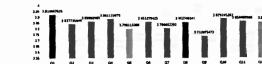


- 2. The instructor presented material in an understandable manner
- 11. The speed in which material was covered in this class was reasonable.
- 5. The syllabus clearly explained the class objectives, activities, grading, and attendance policies.



Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q11 Q11 Q12 2-34445 JA17776 3.25903 J.81132 2-798133 3.853276 3.798653 3.85276 3-732075 3.878265 3.858491 3.8

> Average Student Evaluation Score Fall 2016



Top 2 1. The matractor was knowledgeshie about the material covered in the co

4. Instructions and expectations for assignment were excit

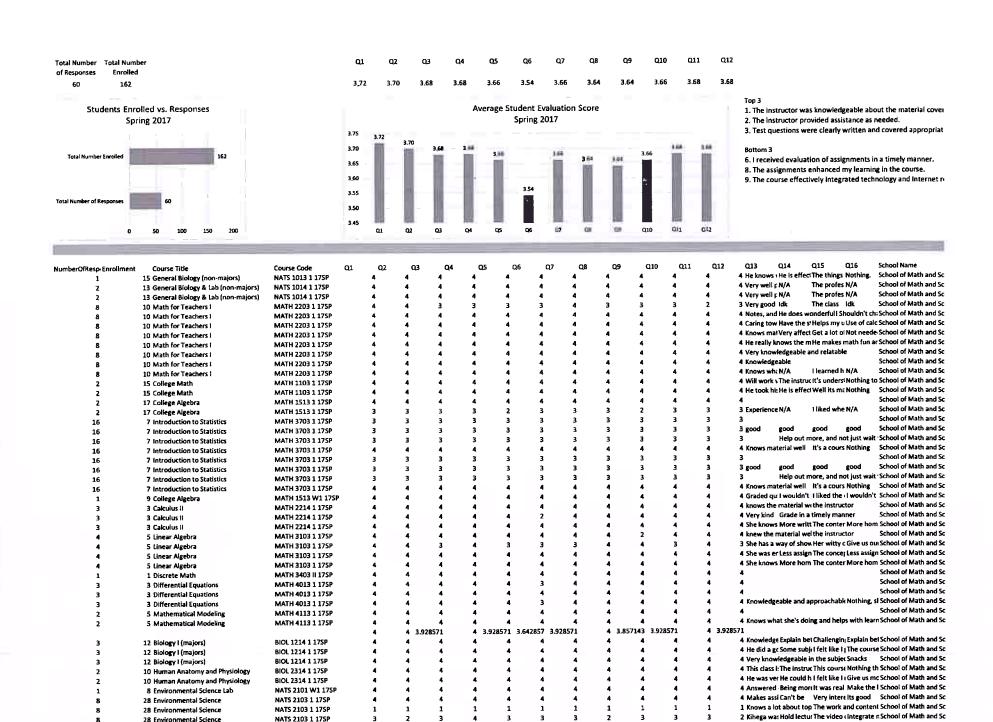
Bottom 3

5-The instructor encouraged applied learning by demonstrating how course concepts connect to professional and/or personal I

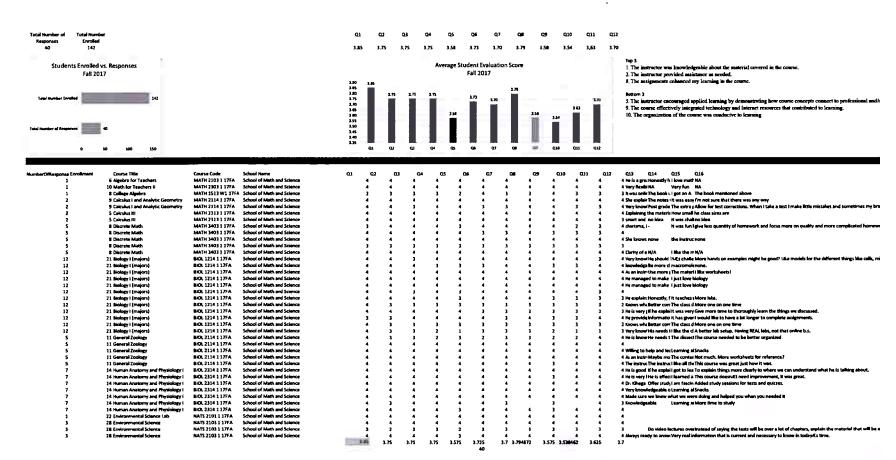
7. The instructor's grading and feedback were constructive, fair and helped are improve.

	_									-											
	Combiner	Course Title	Course Code	School Horry	01	02	93	04	90	04	Q7	04	09	qtp	дц	012		Q13	<b>Q34</b>	qıs	016
erbitant.		& Algebra for Teachers		School of Math and Science	_	_										4	,	Great meth professor - Makes It make sonse 1	No's great	Makes me the mark	Marke it met at regist
:		& Algebra for Teachers & Algebra for Teachers	MATH 2109 1 16FA		:	:	:	i	1	1	:	:	1	:	:	1		Good communication	not received Return types a bittle more quadity,	the material being tought. Me unnecessary mangements.	not received Con't think of anything!
•		2 Algobra for Teachers	MATH 2303 1 16FA	School of Math and Science	•	4	•	•	•	•	4	3	4	•	•	•		understanding. He is one of the sawatest must know I have never had I a professor show me as much bindness as he stors. This class was a blessing and I actuably isociand ferward	I hanestly connot think of snything!	The help that I received inside and exesting the class.	National,
		& Algebra for Teachers	MATH 2103 1 16FA	School of Math and Science													1	to this class every week!			
		& Algebra for Teachers	MATH 2109 1 16FA	School of bligth and Science	4	4	4	4	•	•	4	4	•	4	4	4		Subject  Fundame things very sumabil	None	Teacher The professor second chance test.	None
		Algobra for Teachers	MATH 2103 1 164 A	School of Math and Science	•	4	•	•	•	:	:	:	:	:	- 1	:			N/A he's great!	I makes much manuable!	M/A
		8 Algebra for Teachers	MATH 2109 1 18FA	School of Math and Science	•	•	•	•	•	•	•	-	-	-	-			approachable.			-
ï		E Algebra for Teachers	MATH 2101 1 167A	School of Math and Science	•	4	4	4	4	4	4	•	•	4	4	4			send one more emails	it was great!	ernal students mark
٠		9 Math for Teachers X		School of Math and Science	:	:	:	:	;	:	:	:	:	:	:	:	,	Very innoutedgeable, cares about his students and their nuccess. Takes time to instruct students if they do	20100 GHE Linform Colorina	The meterial is easy to understand when instructed properly *	wate training ward
•		7 Marth for Teachers II		School of Math and Science														nat understand. Exeminates al material	(cont ship) of southing Marke a lesson?	the teacher and second charge tests	Have un make a lesson
•		9 Moth for Teachers II 9 Moth for Teachers II		School of Math and Science School of Math and Science	:	:	:	:	:	:	- :	:	:	:		•		knows meterial very well, good at explanate.	not needed	material is easy to understand	not received
:		9 Meth for Teachers II	MATH 2308 1 16FA	School of Math and Science		- 7	4	•	4	4	4	4	4	•	4	4		He knows the material.	I have no suggestions.	The instruction style of the backer	No magesture.
					•	4	4	•	•	4	4	•	4	4	•	4		He makes meth easier to understand,	He is already very effective. Don't change anything.	Detailed/vegel examples.	I wouldn't change anything! That course w
		9 Math for Teachers 2	MATH 2303 1 16FA	School of Math and Science			1.926571			1,96714	1.93657	3.53657		4	4	4		E H CACE			
					i	2	2	,	2	3	2	4	2	2	1	2		brows to staff	alle there	challenging	Show down, get be linear if exemplately in the
		29 Cellogy Math		School of Math and Science							_				-						Printing Street
6		29 College Math	MATH 1103 1 164	School of Math and Science	•	:	:	;	:	:	•	:	3	•	1	:		he equipmed things well and in a may I could		I bled learning new ways to do certain math problems	
		29 College Math	MATH 1101 1 155A	School of Moth and Science	•	•	•	•	•	•	•	-	•	•	-	-		understand better,			
•						4	4	•	4	4	4	4	4	•	4	•		No shifty to help	Slew down and more swey from the board is I can se	The Hatracter	Matheng
		29 College Math		School of Math and Science		_							,		,			He is very knowledgeship in histh.	No magnetions.	R's my last class of the day	No suggestions.
:		29 College Math 29 College Math	MATH 1103 1 167A	School of Math and Science School of Math and Science	:	:	:	:	:	:	1	•	:	7	•	- 4		He laww the material.	Stochang, I like of the class.	I learned a lot.	Nothing, I liked the class.
- :		21 College Algebra		School of Math and Science	i	3	i	i	1	,	,	,	2		4	3			Don't drag on.		_
					•	3	4	•	,	4	•	3	2	•	4	•			Don't go so in dupth for somethings that many people brown.	That he would near the material that was on tests and assurements	Allow many class years to do that many man
4		71 Callege Algebra	MATH 1513 1 169A	School of Math and Science										4		4		Maters the class enjoyable and provides a great	una.	His humor and the fact that he relates with students	
		21 College Algebra	MATH 1513 1 16FA	School of Math and Science	•	•	•	•	-	•	-	-	-	-				fearing environment.		***	
					•	4	•	4	4	•	4	4	1	•	•			Very preparad/erganized and knowledgeable of content. Friendly and helpful.		Course meterial is prysented in a way that is easy to follow/toors, Daily quitzes helped boost my grade —	
		21 Codage Algebra	MATH 1513 ( 164 w	School of Stath and Science	DJ.	14	3.6	D.	11	3.7	B.4	14	2.0	'n	15 4	2444		on from one what he is taking about any wife.	to any pay helpful and clear about the file matter of	The analysis of the last like	-
1		9 Inerpression to State	60 MATH 1703 1 16FA	School of Math and Science														the best of the same of the sa	0.000		
-				A. School of Math and Science			٠.	-	177	-		12	-			٠.					
- 10		3 College Algebra				;	:	10	38			*	.5	•		4		ldrs. Fundas really cares about you and your grades. She is always welcome to help you wherever you need		blash is my favorite subject.	I think it is great as it is.
1		2 Calculus I and Analytic	( G-MATH 2114 1 1#A	School of Math and Science	•	•	4	4	•	,	•	3	•	•	•	٠		II. Knowledgeable, and she tridy wants us to understand the adjurnation. She Taperal many love peth us if we don't get powerlong with we do.	Easter grading and giving book of exams.	6 May using Shotchpank	
1		4 College Geometry 1	MATH 4003 1 184 A	School of Math and Science								3.8666									
					:	:	:	;	:	1.000	' :	1	•	:	4	- 2			The marks just get our work and were discussed. It is made in the first work more offers and it forms work	fouredate.	Non-part critica majoritros.
		9 Earth Science Lak	NATS 2101 1 185A	School of Math and Science									4					He was very as it admitted the class to shadows needs		EStoré the way it was set up.	
3		9 (arth Spence Lab	MATS 2101 1 16FA	School of Math and Science	:	:						4		•	4			Allowed tune for all assurances and was always.	n/s	i Heed the writes simulations and the different binds of labs that we has to do. I also the how it level up reads	· */*
,		9 Earth Sounce Lab	MATS 2107 1 1664	School of Math and Science																well with the lockers	
•		, carry science car		A THE RESERVE THE PARTY.	4			3	3		3	4	4	4	4	4		He encuraged the students to be interactive and tried	l <b>√</b> •	The variety of assignments	<b>√</b> 4
7		22 Earth Science	HATS 2100 1 16FA	School of Math and Science														to do more than just fecture at us. Asks to present the information well.	Man	I like ingramy about insure we top or hear plant duly	****
_				School of Moth and Science	•	4	4	4	4	•	4	•	•	•	•	•		ADM IS present the somewhere week	_		
7		22 Carth Science	MATS 2309 3 18FA	School of Meth and Science				4			•		4	4	4	•		He is very recitigant and teaches with comfortability	teativing, the response to smooth quickly makes birmed	I learned a LOT, I blind science for the first tune	Nothing, II was great
7	,	22 Earth Science	NATS 2103 1 16FA	School of Meth and Science	-														very accessible, wonderful professor Spotlang, he's pend		
					•	,	,	,	,	•	,	•	•	,	,	•		He's very knowledgeable of the class subject metter and he seems to coully care about his students	Mindell Link & Boom	It's not just a being closs where no one cares or fourne anything. He adjusts the pock and content according to how the class is understanding. The phosys forups It becenating for us.	
7		22 Earth Science 22 Earth Science	MATS 2302 2 TAM AND 2 2003 TAM	School of Math and Science School of Math and Science									,	3		,		Looping & interesting		The project we did more beight	
,					;	:	•	;	i	•	1	i	4	i	4	4		The choic sage very fun and interaction.	t carnet think of anything.	I wont tota the class thinking it would just he a clear to push through to get out of the may but it was very enjoyable and I roofly injured learning about the things we taked about.	
7		22 Earth Science 22 Earth Science	MATS 2103 1 16/A	School of Math and Science School of Math and Science										4	4			He have the material.	Nothing, I liked the course t	Net many tests.	Hething I liked the course
11		22 Earth Science 5 Bology	NATS 2304 1 16FA	School of Math and Science School of Math and Science	7	:			- :	:	4			4		4		He is a very smart and caring properties	There but I much breatly enjoyed this class.	The late were roofly fire and anguging	Hothing, it was an amosome class.
12		5 Braingy	NATS 2204 1 16FA	School of Meth and Science	4	4	4	4	4	4	4	4	•	4	4	•		He is a very smart and caring professor	There isn't much, I really organed this class.	The late were ready for and engaging	Mothing, 4 was 30 awarene class.
12	!	5 Bology	NATS 2304 2 16FA	School of Math and Science	4	4	4	•	•	4		•	•	4		•					
11		5 Biology	MATS 2304 1 16FA	School of Math and Science	:	:	:	:	:	:	:	:	:	:	:	:		Dr - Kihago costly allipsord all students to learn and bags	n Maybe be combined on what we can do for a lest,	I level that the beingy is the beginning of the science	MA
12		S Berlogy	NATS 2304 1 16FA	School of Moth and Science		•		•				4					,	to the or love biology Or-Livege really allowed all students to loarn and begin		classes. I level that the bodage is the beginning of the science	NA.
12		5 Busingy		School of Moth and Science														to blie or tove biology He is a very smart and coring professor.	There isn't much, I really enjoyed this class.	closurs. The bits were really has and ongaging	Nothing, if was payment class.
12 12		21 Steingy & Lab		School of Math and Science School of Math and Science	•	•	4	:	:	:	:	:	- 1	:	:	:			There isn't much, I really enjoyed this class.	The lets were ready fire and engaging	Hathing, it was an awasone class.
12		21 Biology & Lab	NATS 2304 1 16FA		:	:	:	:	:	:	- :	- 1			i	- 7					

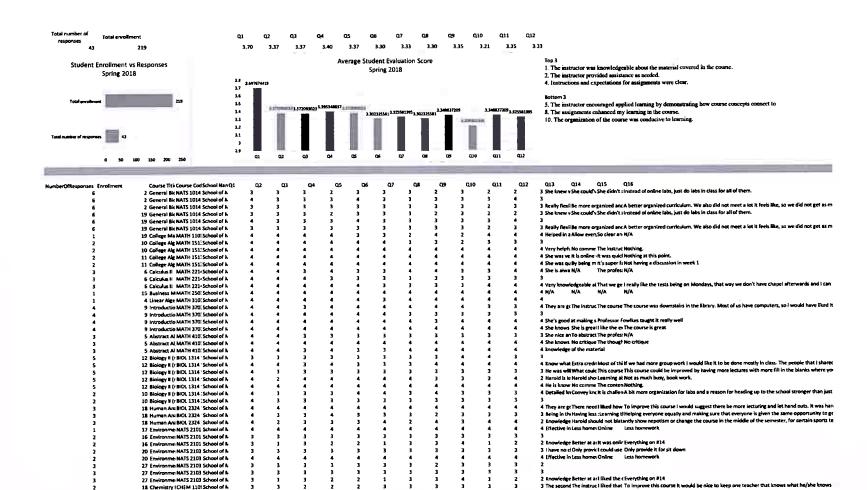
12	21 Geology & Lab	MATS 2204 1 16FA	School of Meth and Science	4	4	4	4	4	4	4		•	4	4	•		
				4		4	4	4	4	4	4	4	4	•		(iv, Kirkega really allowed all ptudowts to learn and begin blaybe be consistent on what we can do for a best.	I level that the bislagy is the beginning of the science. NA
12	21 Palegy & Lab	NATS 2204 1 16FA	School of Moth and Science													to like or love bodagy	classes.
				4	4	4	4	4	4	4	4	4	4	4	4	Dr. Kirkega really allowed all students to learn and begin Maybe be consistent on what we can do for a test.	I leved that the beingy is the beginning of the science MA
12	21 Sayingy & Lab	MATS 2304 1 16FA	School of Math and Science													to the er love belogy	desses.



8	28 Environmental Science	NATS 2103 1 17SP	3	3	3	3	3	3	3	2	3	2	3	3 He knew al Make sure It didn't re-Don't makeSchool of Math and Sc
8	28 Environmental Science	NATS 2103 1 17SP	3	3	3	3	3	3	3	3	3	3	3	3 He was hel Give a schel like what Give a bett School of Math and Sc
8	28 Environmental Science	NATS 2103 1 175P	3	4	4	3	4	4	4	4	4	4	4	4 He was kno He could hilt pertainer Sometime: School of Math and Sc
8	28 Environmental Science	NATS 2103 1 175P	3	3	3	3	3	3	3	3	3	3	3	3 na na na na School of Math and Sc
8	28 Environmental Science	NATS 2103 1 175P	4	4	4	3	3	3	3	3	4	4	4	4 He knew ti Give stude I liked the «Give a revi-School of Math and Sc
1	1 Concepts of Physics	PHYS 1133 (I 175P	4	3	3	3	4	1	2	3	3	3	3	4 Knowledge Teaching it. I'd like to k School of Math and Sc



3.539462 3.85



18 Chemistry ICHEM 110! School of B.

3 The first in: The first in: There was Build our own lab and invest in a real them teacher. We need this information to graduate as

Curriculum Reviews

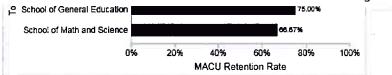
Course	Title	Revision	Status
MATH 3303	History of Math	Revised Final Essay	In Process – no new
		Rubric	results
MATH 4003	College Geometry I	Revising Final Proof	In process
		Portfolio Rubric	
MATH 4113	Mathematical	Biology topics added	In process
	Modeling		

Retention/Persistence Rates

The current retention rate and its changing trend\*



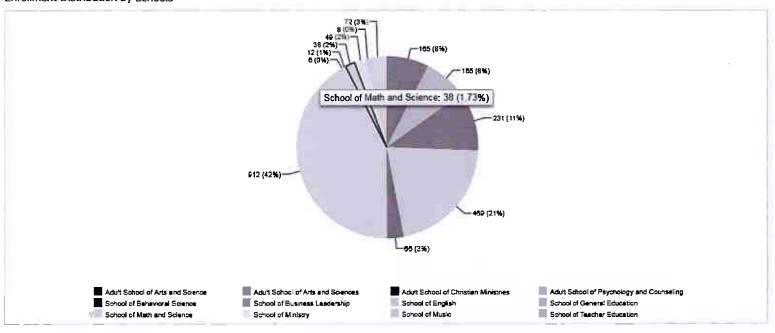
## StockFlags - Retention Comparison in Academic Year V4

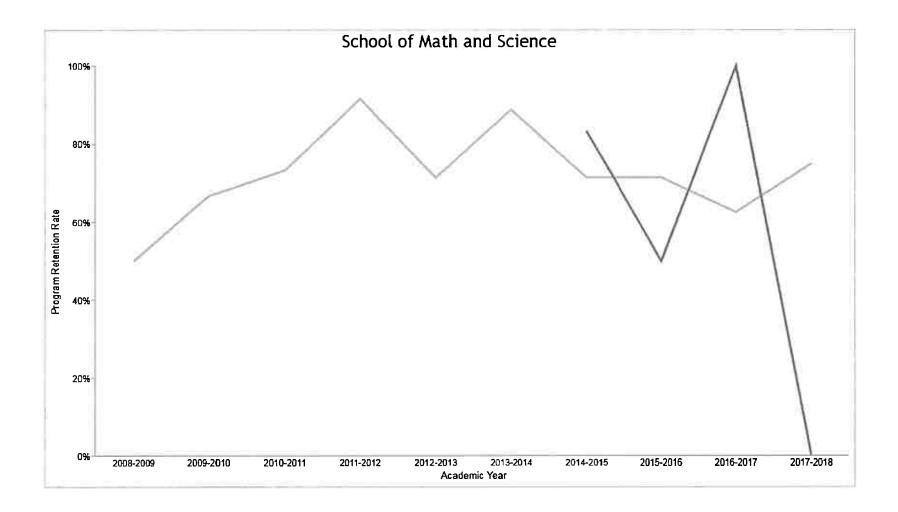


**▲** .57 **49.85%** 

\* The percentages below mean the actual percent of Retention Rate and the numeber of its changes

## **Enrollment Distribution by Schools**





Instructor/Faculty Evaluations

University Senate Documents Related to Program

PURPOSE: Request for Approval of	Curriculum Revisions	
Curriculum proposal for:		
Submitted by:	College	e/School
<ul> <li>new degree or emphasis. (approval to a Submit your completed proposal a your proposal to reviewers and attach</li> <li>Proposals with all required signatu prior to the scheduled meeting.</li> </ul>	degree/emphasis/certifice Proposal form. Note: this levelop is not required for any and required documentation the email responses to this forces should be submitted forces.	cate program: is form is not for use to change an existing program into a
Curriculum components Requested change for:	eeded (show changes in st	trikeout and highlights format, e.g., old and new format)
Admission requirements Course description		ACU Catalog for information and format examples showing all revised or new information.
Course (information Submit you	ir completed proposal form	and revised degree evaluation form (if applicable) (A course
Course (new) Submit pro	posal form with course nam	artment, prefix, number, level, pre-requisites, and credit hours) ne, prefix, and course description and (CAS) semester rotation
Degree evaluation form   Submit you	GS) length of course use ca ir completed proposal form ice will assist with these cha	atalog format) and revised degree evaluation form (if applicable and revised degree evaluation form (the University Registrar or
<ul> <li>3. Changes requested at any level below</li> <li>4. Upon completion of signatures the V</li> <li>Approved: School Chair/Program Director</li> </ul>	PAA will retain this sheet	and send final electronic copies to you and College Dean.  Comments
Approved: College Dean	Date	Comments
Approved: Vice President for CAGS (CAGE)	GS Only) Date	Comments
Approved: Marketing Representative –CAC Assist. V.P. Enrollment Services – CAS	GS <u>or</u> Date	Comments
Approved: University Registrar	Date	Comments
Approved: Chief Financial Officer	Date	Comments
Approved: Executive Director of Assessme Accreditation and Institutional Research	ent, Date	Comments
Approved: Vice President for Academic	Affairs Date	Comments

## Proposal Request to Make Changes to Existing Curriculum or for new

Proposal to Change: Course descriptions for MATH and NATS courses

courses: (state primary area of change - name of revised degree, new or revised course, etc.)

Proposal to Change - explain revisions and actions being requested (show changes in strikeout and highlights, e.g., old and new format)

Course description changes for MATH 1103 College Math and MATH 4203 Mathematical Statistics
Prerequisite changes to: MATH 1303 Plane Trigonometry, MATH 1513 College Algebra, MATH 2114 Calculus 1, MATH
3403 Discrete Math, MATH/BUAD/PSYC 3703 Introduction to Statistics, MATH 4013 Differential Equations, MATH 4103
Abstract Algebra

Course rotation updates

Rationale (information supporting proposal - why you are making changes)

Changes made to course descriptions to align with Course Equivalency Program. Revised prerequisites and course rotations to reflect changes made to program based on assessment analysis.

Other information (show new courses, course description changes, etc.)

MATH 1103 College Math (3 cr.) Exploration of various topics designed to give the student an appreciation of mathematics and to expose the student to mathematical problems within numerous disciplines. The study of essential arithmetic, intermediate algebra and geometry, including a survey of linear equations, polynomials, algebraic fractions and quadratic equations. Emphasis is given to problem solving and the practical application of mathematical concepts (This course may not meet the general math requirement of other colleges for students intending to transfer from MACU.) Prerequisite: ACT score of 16 or above. Offered every semester.

MATH 1303 Plane Trigonometry (3 cr.) In the first part of this course, properties of triangles and trigonometric functions and their applications are explored. Topics include: trigonometric functions, identities, graphs, inverses, and laws. In the second part of this course, a graphical approach to functions will be explored with extensive use of graphing calculators to explore problems and solutions, not just rote memorization. Problem-solving techniques and the programming of graphing calculators will also be taught. Prerequisite: ACT Math score of 18. Offered every fall.

MATH 1513 College Algebra (3 cr.) This course is a study of the processes of algebra, polynomials, algebraic fractions, graphing linear systems. It is designed for students planning to major in business and natural science programs. Prerequisite: ACT Score of 22 or above or complete MATH 1103 with a grade of "B" or approval of Instructor. Offered every semester

MATH 2103 Algebra for Teachers (3 cr.) The elementary major will be presented with a tactile approach to Algebraic concepts. Students will reason mathematically, solve problems, and encourage full participation, design and present lessons that use the hands-on approach to teaching an algebraic concept. Students will develop portfolios and grade lab homework. The ( NCTM) standards are presented and explored. Offered every fall semester.

MATH 2114 Calculus I and Analytic Geometry (4 cr.) An introduction to the basic concepts of Calculus including limits, derivatives and integrals using graphical, numerical, recurrence relations and symbolic points of view. Emphasis will be placed on using Calculus in problem solving and problem solving techniques will be taught. (lab included) Prerequisites: MATH 1513 or high school credit for Calculus. Offered every fall.

MATH 3103 Linear Algebra (3 cr.) A study of the generalization of the properties of straight lines. Topics include: linear equations, matrices, determinants, vectors, vector spaces, linear transformations, eigenvalues and eigenvectors. Prerequisite: MATH 1513. Offered every spring.

MATH 3403 Discrete Math (3 cr.) An introduction to the fundamental ideas of discrete mathematics and a foundation for the development of more advanced mathematical concepts. Some topics covered include: Number Theory, Sets and operations on sets, logic, permutations and combinations, functions, trees, graph theory and groups. Prerequisite: MATH 1513. Offered fall semester: odd numbered years.

MATH/BUAD/PSYC 3703 Introduction to Statistics (3 cr.) The course is a complete introduction to basic statistics as a method of analysis. Statistics is a powerful tool that is used in the business world and in the behavioral science area extensively. This course will provide the student with a working knowledge of statistical terms and formulas. The student will use Microsoft Excel as the medium technology throughout the course. Microsoft Excel spreadsheet program is required for this course. Prerequisite: MATH 1513. Offered every semester.

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MATH 4003 College Geometry I (3 cr.) This course is designed to be a "voyage" through plane geometry and its various branches. The student will be introduced to properties of axiomatic systems and investigate each system. Discussions on Euclidean and non-Euclidean Geometries will be included. Extensive use of Geometer's Sketchpad software will be required with several laboratory investigations. Prerequisite: MATH 2313. Offered fall semester: even numbered years.

MATH 4013 Differential Equations (3 cr.) Ordinary differential equations of first order, higher order linear equations, Laplace transform methods, series methods; numerical solution of differential equations. Application to physical sciences and engineering. Prerequisite: MATH 2313. Offered spring semester: odd numbered years.

MATH 4103 Abstract Algebra (3 cr.) A study of three themes: arithmetic, congruence, and abstract structures which are developed for integers, polynomials, rings and groups. Numbers, number theory and number systems will be taught. Prerequisite: MATH 3403. Offered spring semester: even numbered years.

MATH 4113 Mathematical Modeling (3 cr.) Mathematical modeling is a mathematical tool for solving real world problems. In this course students study a problem-solving process. They learn how to identify a problem, construct or select appropriate models, figure out what data needs to be collected, test the validity of a model, calculate solutions and implement the model. Emphasis lies on model construction in order to promote student creativity and demonstrate the link between theoretical mathematics and real world applications. Prerequisite: MATH 2313. Offered spring semester: odd numbered years.

MATH 4203 Mathematical Statistics (3 cr.) A study of combinatorics; probability, random variables, discrete and continuous distributions, generating functions, moments, special distributions, multivariate distributions, independence, distributions of functions of random variables, hypothesis testing, analysis of variance, and regression. Prerequisites: MATH 3703 and MATH 2313. Offered fall semester: odd numbered years.

MATH 4303 College Geometry II (3 cr.) This course is designed to be a "voyage" through plane geometry and its various branches. The student will be introduced to properties of axiomatic systems and will investigate each system, including rings and groups. Discussions on non-Euclidean geometries will be included. Extensive use of Geometer's SketchPad software will be required with several laboratory investigations. Prerequisite: MATH 4003. Offered spring semester: odd numbered years.

#### NATS [Natural Science]

NATS 2101 Earth Science Lab (1 cr.) Designed to provide more in depth understanding and hands-on experiences relevant to the basic principles of physical science as applied to our solar system, the universe, geology, oceanography, and weather. Offered every semester.

NATS 2103 Earth Science (3 cr.) An introductory study of the basic principles of physical science as applied to our solar system, the universe, geology, oceanography, and weather. Offered every semester.

NATS 2201 Biology Lab (1 cr.) Laboratory experiences designed to facilitate understanding of the biological concepts principles studied in NATS 2203. A one hour lab session each week. Offered every semester

NATS 2203 Biology (3 cr.) A study of past and present concepts regarding the origin, growth, reproduction, structure, genetics, evolution, and interrelations of biological life. Offered every semester

## Correlation to the Assessment System & Program Improvement

Changes were made because of assessment system analysis and to improve program by making courses transferrable.

Budget and Correlation to Strategic Planning (include additional adjunct or any other expected costs)

No budget changes

Other (Attach all pertinent degree program evaluation forms showing revisions with strikeout and highlights, e.g., old and new format)

SUBMITTED BY:  • Name/Title  • College/School	Carol Fowlkes, Chair of the School of Math and Science College of Arts and Sciences/School of Math and Science
Proposed Effective Date:	As Approved

student will be introduced to properties of a Geometries will be included. Extensive use	is course is designed to be a "voyage" through plane geometry and its various branches. The xiomatic systems and investigate each system. Discussions on Euclidean and non-Euclidean of Geometer's Sketchpad software will be required with several laboratory investigations. lester: even numbered years.	Deleted: spring
methods, series methods; numerical solutio	Ordinary differential equations of first order, higher order linear equations, Laplace transform n of differential equations. Application to physical sciences and engineering. Prerequisite: MATH <sub>v_</sub>	Deleted: 2214 and MATH 3103
	dy of three themes: arithmetic, congruence, and abstract structures which are developed for	——— Deleted: on demand
integers, polynomials, rings and groups. No	imbers, number theory and number systems will be taught. Prerequisite: MATH, 3403. Offered	Deleted: 2313
		Deleted: fall
students study a problem-solving process. I	.) Mathematical modeling is a mathematical tool for solving real world problems. In this course they learn how to identify a problem, construct or select appropriate models, figure out what data model, calculate solutions and implement the model. Emphasis lies on model construction in order ate the link between theoretical mathematics and real world applications. Prerequisite: MATH 2313.	Deleted: odd
Offered spring semester: odd numbered	years.	Deleted: on demand
distributions, generating functions, r distributions of functions of random 3703 and MATH 2313. Offered fall semest MATH 4303 College Geometry II (3 cr.) T student will be introduced to properties of non-Euclidean geometries will be included	O A study of combinatorics; probability, random variables, discrete and continuous noments, special distributions, multivariate distributions, independence, variables, hypothesis testing, analysis of variance, and regression, Prerequisites: MATH er: odd numbered years.  It is course is designed to be a "voyage" through plane geometry and its various branches. The axiomatic systems and will investigate each system, including rings and groups. Discussions on Extensive use of Geometer's SketchPad software will be required with several laboratory Offered spring semester: odd numbered years.	<ul> <li>Deletad: Introduction to statistical analysis including populations samples, descriptive statistics, regression, correlation, probability, discrete and continuous distributions, sampling methods, estimation hypothesis testing, and analysis of variance</li> </ul>
principles of physical science as applied to	igned to provide more in depth understanding and hands-on experiences relevant to the basic our solar system, the universe, geology, oceanography, and weather. Offered every semester.	Deleted: fall
NATS 2103 Earth Science (3 cr.) An intro- geology, oceanography, and weather. Offe	ductory study of the basic principles of physical science as applied to our solar system, the universe, red every semester.	Deleted: fall
NATS 2201 Biology Lab (1 cr.) Laborator NATS 2203. A one hour lab session cach	y experiences designed to facilitate understanding of the biological concepts principles studied in week, Offered every semester	Deleted: two
NATS 2203 Biology (3 cr.) A study of pas interrelations of biological life. Offered ev	t and present concepts regarding the origin, growth, reproduction, structure, genetics, evolution, and ery semester	Deleted: spring
Correlation to the Assessment Syste	m & Program Improvement	
Changes were made because of assess	ment system analysis and to improve program by making courses transfertable.	
Budget and Correlation to Strategic	Planning (include additional adjunct or any other expected costs)	
No budget changes		
Other (Attach all pertinent degree pro	ogram evaluation forms showing (evisions with influent and highlights, e.g., ald and new format)	
SURMITTED BY:  Name/Title College/School	Carol Fowlkes, Chair of the School of Math and Science College of Arts and Sciences/School of Math and Science	
Proposed Effective Date:	As Approved	

External Review Documents (Advisory Boards, OEQA, etc.)

# STATE OF OKLAHOMA RECOGNITION REPORT ON THE PREPARATION OF MATHEMATICS TEACHERS

This is: ⊠ an existing progra	m □ a new program	
This report is in response t	o a(n):	
☑ Initial Review ☐ Re	evised Report   Respo	nse to Condition
Institution: Mid-America Chris	tian University	
Review Date: <u>11/3/2017</u>		
Program(s) Covered by this Review:	Program Type:	Award or Degree Level(s):
	☑ Initial teacher license in field	Initial
	☐ Advanced program leading to another professional role	<ul> <li>☑ Baccalaureate</li> <li>☐ Post baccalaureate</li> <li>☐ Initial Master's</li> <li>☐ Endorsement, Certificate, or License</li> <li>(specify)</li> <li>Advanced</li> <li>☐ Master's</li> <li>☑ Post Master's</li> <li>☐ Specialist</li> <li>☐ Doctorate</li> </ul>
		☐ Endorsement, Certificate, or License (specify)
PART A—RECOGNITION I		r specifics on decision)
	n or the program(s).	
<ul> <li>□ Recognized</li> <li>□ Recognized with conditions</li> <li>□ Recognized with probation -</li> <li>□ Further development require</li> <li>□ Not recognized* - third or second</li> </ul>	ed – <i>program not previously re</i>	m cognized
*A program can receive a decision of a Recognized or Recognized with Condit	Not Recognized only after two subminers	nissions are unsuccessful in reaching either

	:	- 1
☐ Yes ☐ No ☐ Not applicable ☐ Not able to determine		
Comments:		
A.3—Summary of Strengths: The report includes a good group of assess		
together to meet the NCTM standards. Strong content courses are included	sements that I in the prog	ram.
PART B—STATUS OF MEETING STATE STANDARDS  M = Met		
PM = Potential to Meet (for new programs with no data)		
Standard	Specific Program or Level <sup>2</sup>	Specific Program or Level
Standard 1: Content Knowledge		o. Level
Effective teachers of secondary mathematics demonstrate and apply knowledge of major mathematics		
Effective teachers of secondary mathematics demonstrate and apply knowledge of major mathematics concepts, algorithms, procedures, connections, and applications within and among mathematical contents.	nt	
Effective teachers of secondary mathematics demonstrate and apply knowledge of major mathematics concepts, algorithms, procedures, connections, and applications within and among mathematical contents.  Standard 1.1: Demonstrate and apply knowledge of major mathematics concepts, algorithms, procedures, applications in varied contexts, and connections within and among mathematical domains (Number, Algebra, Geometry, Trigonometry, Statistics, Probability, Calculus, and Discrete Mathematics) as outlined in the NCTM NCATE Mathematics Content for Secondary.	MWC	
Effective teachers of secondary mathematics demonstrate and apply knowledge of major mathematics concepts, algorithms, procedures, connections, and applications within and among mathematical content domains.  Standard 1.1: Demonstrate and apply knowledge of major mathematics concepts, algorithms, procedures, applications in varied contexts, and connections within and among mathematical.	MWC	quired Math
Effective teachers of secondary mathematics demonstrate and apply knowledge of major mathematics concepts, algorithms, procedures, connections, and applications within and among mathematical content domains.  Standard 1.1: Demonstrate and apply knowledge of major mathematics concepts, algorithms, procedures, applications in varied contexts, and connections within and among mathematical domains (Number, Algebra, Geometry, Trigonometry, Statistics, Probability, Calculus, and Discrete Mathematics) as outlined in the NCTM NCATE Mathematics Content for Secondary.  Comment: Section III of the report indicates that Assessments #1 the OSAT for Mathematics	MWC	

A.2—Test Results (from information supplied in Assessment #1)

variety of problems and persevere in solving them, apply and adapt a variety of strategies in solving problems confronted within the field of mathematics and other contexts, and formulate and test conjectures in order to frame generalizations. Comment: Section III the report indicates that Assessment #2 provides evidence for Standard 2a.

Effective teachers of secondary mathematics solve problems, represent mathematical ideas, reason, prove, use mathematical models, attend to precision, identify elements of structure, generalize, engage in mathematical communication, and make connections as essential mathematical practices. They understand that these practices intersect with mathematical content and that understanding

Standard 1a is not met by Assessment #6; the assessment does not encompas the range of concepts within the

Standard 2.1: Use problem solving to develop conceptual understanding, make sense of a wide

relies on the ability to demonstrate these practices within and among mathematical domains and in their teaching

mathematical domains required by the standard.

Standard 2: Mathematical Practices

NM

<sup>&</sup>lt;sup>2</sup>More than one column may be used for standards decisions if the program report encompasses more than one program.

Standard	Specific Program or Level <sup>2</sup>	Specific Program or Leve
Standard 2a is not met by Assessment #2; the data specific to this element is not disaggregi	ated.	
Standard 2.2. Person News 1		
Standard 2.2: Reason abstractly, reflectively, and quantitatively with attention to units, constructing viable arguments and proofs, and critiquing the reasoning of others; represent and model generalizations using mathematics; recognize structure and express regularity in patterns of mathematical reasoning; use multiple representations to model and describe mathematics; and utilize appropriate mathematical vocabulary and symbols to communicate mathematical ideas to others.	NM	
Comment: Section III the report indicates Assessments #2, #4 Student Teacher Evaluation at this standard.	and #6 provide	evidence foi
Standard 2b is not met by Assessment #2; see Standard 2a.		
Standard 2b has the potential to be met by the revised Assessment #4; data is needed.		
Standard 2b is not met by Assessment #6; there is no summative data for the standard.		
<b>Standard 2.3:</b> Formulate, represent, analyze, and interpret mathematical models derived from real-world contexts or mathematical problems.	NM	
Comment: Section III the report indicates Assessment #2 provides evicence for this standard		
Standard 2c is not met by Assessment #2; see Standard 2a.  Standard 2.4: Organize mathematical thinking and use the language of mathematics to express ideas precisely, both orally and in writing to the language of mathematics to express	NM I	
ideas precisery, botti orany and in writing to militale andiences		
Comment: Section III the report indicates Assessments #2, #4, and #6 provide evidence for		
Standard 2d is not met by Assessment #2 (see Standard 2a) or by Assessment #6 (see Stand	lard 2b).	
Standard 2d has the potential to be met by the revised Assessment #4; data is needed.		
Standard 2.5: Demonstrate the interconnectedness of mathematical ideas and how they build on	NM	
one another and recognize and apply mathematical connections among mathematical ideas and across various content areas and real-world contexts.	NM	
tations and real-world contexts.	tandard.	
Comment: Section III the report indicates Assessments #2 and #4 provide evidence for this s		
Comment: Section III the report indicates Assessments #2 and #4 provide evidence for this s Standard 2e is not met by Assessment #2: the Methods Course grade is not reflective of the c	andidates' level	of
Comment: Section III the report indicates Assessments #2 and #4 provide evidence for this solutions is standard 2e is not met by Assessment #2; the Methods Course grade is not reflective of the coroficiency on this standard.	andidates' level	of
Comment: Section III the report indicates Assessments #2 and #4 provide evidence for this since the confidence of the confidency on this standard.  Standard 2e has the potenm=tial to be met by revised Assessment #4; data is needed.  Standard 2.6: Model how the development of mathematical understanding within and among mathematical domains intersects with the mathematical practices of problem solving, reasoning	nandidates' level	of
Comment: Section III the report indicates Assessments #2 and #4 provide evidence for this since the conficiency on the standard 2e is not met by Assessment #2; the Methods Course grade is not reflective of the conficiency on this standard.  Standard 2e has the potenm=tial to be met by revised Assessment #4; data is needed.  Standard 2.6: Model how the development of mathematical understanding within and among mathematical domains intersects with the mathematical practices of problem solving, reasoning, communicating, connecting, and representing.	NM	of
Comment: Section III the report indicates Assessments #2 and #4 provide evidence for this standard 2e is not met by Assessment #2; the Methods Course grade is not reflective of the coroficiency on this standard.  Standard 2e has the potenm=tial to be met by revised Assessment #4; data is needed.  Standard 2.6: Model how the development of mathematical understanding within and among mathematical domains intersects with the mathematical practices of problem solving, reasoning, communicating, connecting, and representing.  Comment: Section III the report indicates that Assessment #2 provides evidence for this standard 2f is not met by Assessment #2; see Standard 2e.	NM	of
Comment: Section III the report indicates Assessments #2 and #4 provide evidence for this since the conficiency on the standard.  Standard 2e is not met by Assessment #2; the Methods Course grade is not reflective of the conficiency on this standard.  Standard 2e has the potenm=tial to be met by revised Assessment #4; data is needed.  Standard 2.6: Model how the development of mathematical understanding within and among mathematical domains intersects with the mathematical practices of problem solving, reasoning, communicating, connecting, and representing.  Comment: Section III the report indicates that Assessment #2 provides evidence for this standard.	NM	

Standard	Specific Program or Level <sup>2</sup>	Specific Program or Level
understanding and proficiency. They provide students with opportunities to do mathematics – talking both theoretical and real-world contexts. They plan, select, implement, interpret, and use formative an monitoring student learning, measuring student mathematical understanding, and informing practice.	about it and conn d summative asso	ecting it to essments for
relationship to student learning within and across mathematical domains	MWC	
Comment: Section III the report indicaates that Assessments #3, #4 and #5, Teacher Work for Standard 3.  Standard 3a is not met by Assessment #3; the description of the assignment leaves the number of each evaluation are not included and the standard section.	above word for	
uncertain, the results of each evaluation are not included and the determination of the mean Standard 3a has the potential to be met by revised Assessment #4; data is needed		
Standard 3a is not met by Assessment #5; the quality of the candidates' performance is not which determine the level of proficiency in the scoring guide.	included in the	criteria
Standard 3.2: Analyze and consider research in planning for and leading students in rich mathematical learning experiences.	NM	
Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence	cew for Standar	rd 3
Standard 3b is not met by Assessments #3 and #5; see Standard 3a.	- Con Contract	<b>.</b>
Standard 3.3: Plan lessons and units that incorporate a variety of strategies, differentiated instruction for diverse populations, and mathematics-specific and instructional technologies in building all students' conceptual understanding and procedural proficiency.	NM	
Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence	e for Standard 3	3,
Standard 3c is not met by Assessment #3; see Standard 3a.  Standard 3c is not met by Assessment #5; the data table presents more than one result for t	he standard.	
Standard 3.4: Provide students with opportunities to communicate about mathematics and make		
connections among mathematics, other content areas, everyday life, and the workplace	М	
Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence	e for Standard 3	
Standard 3d is not met by Assessment #3; see Standard 3a. Standard 3d is met by Assessment #5.		
Canada 12.6 x a		
Standard 3.5: Implement techniques related to student engagement and communication including selecting high quality tasks, guiding mathematical discussions, identifying key mathematical ideas, identifying and addressing student misconceptions, and employing a range of questioning strategies.	NM	
Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence	for Standard 3.	
Standard 3e is not met by Assessments #3, #4, and #5; see Standard 3c.		
Standard 3.6: Plan, select, implement, interpret, and use formative and summative assessments to inform instruction by reflecting on mathematical proficiencies essential for all students.	MWC	
Comment: Section III the report indicates that Assessments #3 and #5 provide evidence for S	Standard 3.	
Standard 3f is not met by Assessments #3, and #5; see Standard 3c. Standard 3f has the potential to be met by Assessment #4; Data is needed.		
Standard 3.7: Monitor students' progress, make instructional decisions, and measure students'	NM	
nathematical understanding and ability using formative and summative assessments	14171	

## Specific **Specific** Standard Program Program or Level<sup>2</sup> or Level Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence for Standard 3. Standard 3g is not met by Assessments #3, #4, and #5; see Standard 3c. Standard 4: Mathematical Learning Environment Effective teachers of secondary mathematics exhibit knowledge of adolescent learning, development, and behavior. They use this knowledge to plan and create sequential learning opportunities grounded in mathematics education research where students are actively engaged in the mathematics they are learning and building from prior knowledge and skills. They demonstrate a positive disposition toward mathematical practices and learning, include culturally relevant perspectives in teaching, and demonstrate equitable and ethical treatment of and high expectations for all students. They use instructional tools such as manipulatives, digital tools, and virtual resources to enhance learning while recognizing the possible limitations of such tools. Standard 4.1: Exhibit knowledge of adolescent learning, development, and behavior and MWC demonstrate a positive disposition toward mathematical processes and learning. Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence for Standard 4. New Assessment #4 has the potential to meet Standard 4a. Standard 4.2: Plan and create developmentally appropriate, sequential, and challenging learning **MWC** opportunities grounded in mathematics education research in which students are actively engaged in building new knowledge from prior knowledge and experiences. Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence for Standard 4. Assessment 3 has the potential to meet Standard 4b. New Assessment #4 has the potential to meet Standard 4b. Standard 4.3: Incorporate knowledge of individual differences and the cultural and language **MWC** diversity that exists within classrooms and include culturally relevant perspectives as a means to motivate and engage students. Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence for Standard 4.

Assessment 3 has the potential to meet Standard 4c. New Assessment #4 has the potential to meet Standard 4c. Assessment 5 has the potential to meet Standard 4c.

Standard 4.5: Demonstrate equitable and ethical treatment of and high expectations for all MWC

Students.

Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence for Standard 4.

Assessment 3 has the potential to meet Standard 4d. New Assessment #4 has the potential to meet Standard 4d.

Standard 4.6: Apply mathematical content and pedagogical knowledge to select and use instructional tools such as manipulatives and physical models, drawings, virtual environments, spreadsheets, presentation tools, and mathematics-specific technologies (e.g., graphing tools, interactive geometry software, computer algebra systems, and statistical packages); and make sound decisions about when such tools enhance teaching and learning, recognizing both the insights to be unined and possible limitations of such tools.

MWC

Comment: Section III the report indicates that Assessments #3, #4, and #5 provide evidence for Standard 4.

Assessment 3 has the potential to meet Standard 4e. New Assessment #4 has the potential to meet Standard 4e. Assessment 5 has the potential to meet Standard 4e.

Standard 5. Impact of Student Learning

Standard	Specific Program or Level <sup>2</sup>	Specific Program or Level
Effective teachers of secondary mathematics provide evidence demonstrating that as a result of their is conceptual understanding, procedural fluency, strategic competence, adaptive reasoning, and applicate concepts in varied contexts have increased. These teachers support the continual development of a promathematics. They show that new student mathematical knowledge has been created as a consequence engage students in mathematical experiences that are developmentally appropriate, require active engage students.	ion of major math	dary students' ematics on toward
Standard 5.1: Verify that secondary students demonstrate conceptual understanding; procedural fluency; the ability to formulate, represent, and solve problems; logical reasoning and continuous reflection on that reasoning; productive disposition toward mathematics; and the application of mathematics in a variety of contexts within major mathematical domains.	MWC	
Comment: Section III the report indicates that Assessments #4 and #5 provide evidence for New Assessment #4 has the potential to meet Standard 5a Assessment 5 has the potential to meet Standard 5a.	Standard 5.	
Standard 5.2: Engage students in developmentally appropriate mathematical activities and investigations that require active engagement and include mathematics-specific technology in building new knowledge.	MWC	
Comment: Section III the report indicates that Assessments #4 and #5 provide evidence for New Assessment #4 has the potential to meet Standard 5a	Standard 5.	
Standard 5.3: Collect, organize, analyze, and reflect on diagnostic, formative, and summative assessment evidence and determine the extent to which students' mathematical proficiencies have increased as a result of their instruction.	MWC	
Comment: Section III the report indicates that Assessments #4 and #5 provide evidence for New Assessment #4 has the potential to meet Standard 5a. Assessment 5 has the potential to meet Standard 5a.	Standard 5.	
Standard 6: Professional Knowledge and Skills  Effective teachers of secondary mathematics are lifelong learners and recognize that learning is often on professional development experiences specific to mathematics and mathematics education, draw upon research to inform practice, continuously reflect on their practice, and utilize resources from profession standard 6.1. Take an active rale in their practice, and utilize resources from profession.		
<b>Standard 6.1:</b> Take an active role in their professional growth by participating in professional development experiences that directly relate to the learning and teaching of mathematics.  Comment: Section III the report indicates that Assessments #4 and #5 provide evidence for a section of the section of	MWC	<u> </u>
New Assessment #4 has the potential to meet Standard 6a. Assessment 5 has the potential to meet Standard 6a.	Standard 6.	
Standard 6.2: Engage in continuous and collaborative learning that draws upon research in mathematics education to inform practice; enhance learning opportunities for all students' mathematical knowledge development; involve colleagues, other school professionals, families, and various stakeholders; and advance their development as a reflective practitioner.	MWC	
Comment: Section III the report indicates that Assessments #4 and #5 provide evidence for S New Assessment #4 has the potential to meet Standard 6b. Assessment 5 has the potential to meet Standard 6b.	Standard 6.	
Standard 6.3: Utilize resources from professional mathematics education organizations such as print, digital, and virtual resources/collections.	MWC	
Comment: Section III the report indicates that Assessments #4 and #5 provide evidence for S New Assessment #4 has the notential to meet Standard 60	Standard 6.	

Standard	Specific Program or Level <sup>2</sup>	Specific Program or Level
Standard 7: Secondary Mathematics Field Experiences and Clinical Practice Effective teachers of secondary mathematics engage in a planned sequence of field experiences and cl supervision of experienced and highly qualified mathematics teachers. They develop a broad experien effective approaches to mathematics teaching and learning, and professional behaviors across both mi that involve a diverse range and varied groupings of students. Candidates experience a full-time stude secondary mathematics directed by university or college faculty with secondary mathematics teaching experience or equivalent knowledge base.	tial base of know ddle and high sch	ledge, skills,
Standard 7.1: Engage in a sequence of planned field experiences and clinical practice prior to a full-time student teaching/internship experience that include observing and participating in both middle and high school mathematics classrooms and working with a diverse range of students individually, in small groups, and in large class settings under the supervision of experienced and highly qualified mathematics teachers in varied settings that reflect cultural, ethnic, linguistic, gender, and learning differences.	MWC	
Comment: Standard 7.a has the potential to be met with Section I part 2 Field Experience The description provided is general and should address the mathematics educaiton program		
Standard 7.2: Experience full-time student teaching/internship in secondary mathematics that is supervised by a highly qualified mathematics teacher and a university or college supervisor with secondary mathematics teaching experience or equivalent knowledge base.	MWC	
Comment: Standard 7.b has the potential to be met with Section I part 2 Field Exp.  The description provided is general and should address the mathematics education program.		tion.
Standard 7.3: Develop knowledge, skills, and professional behaviors across both middle and high school settings; examine the nature of mathematics, how mathematics should be taught, and how students learn mathematics; and observe and analyze a range of approaches to mathematics teaching and learning, focusing on tasks, discourse, environment, and assessment.	MWC	
Comment: In Section III the program indicaates that Assessment #4 Student Teaching Evaluation  Standard 7.c.	ation provide e	vidence for
The revised Student Teaching Evaluatoin has the potential to meet 7.c.		

## PART C—EVALUATION OF PROGRAM REPORT EVIDENCE

**C.1—Candidates' knowledge of content.** Performance-based standards addressed in this entry could include (but are not limited to) Standards 1-3. Information from Assessments #1 and #2 should provide primary evidence in this area. (Assessments #6-#8 may also focus on content knowledge.)

**C.2—Candidates' ability to understand and apply pedagogical and professional content knowledge, skills, and dispositions.** Information from Assessments #3 and #4 should provide primary evidence in this area. (Assessments #6-#8 may also focus on pedagogical knowledge, skills, and dispositions.)

<b>C.3—Candidate effects on P-12 student learning.</b> Information from Assessment #5 s provide primary evidence in this area. (Assessments #6-#8 may also focus on student learning.)	hould
PART D—EVALUATION OF THE USE OF ASSESSMENT RESULTS	
D—Evidence that assessment results are evaluated and applied to the improve candidate performance and strengthening of the program (as discussed in Section 1)	ment of tion V of
PART E—AREAS FOR IMPROVEMENT	
PART F—ADDITIONAL COMMENTS	
F.1—Comments on context and other topics not covered in sections B-D:	
F.2—Concerns for possible follow up by the Board of Examiners:	
PART G: TERMS AND SUBSEQUENT ACTIONS FOR DECISIONS	
☐ <b>Program is recognized.</b> The program is recognized through the semester and year of the inst next accreditation visit in 5-7years. To retain recognition, another program report must be submitted that review. The program will be listed as recognized through the semester of the next review on viand/or other publications of the OEQA. The institution may designate its program as recognized by through the semester of the next accreditation review, in its published materials. <b>Subsequent action by the institution:</b> None. Recognized programs may not file revised reports addressing any unmet standards or areas for improvement.	ed before vebsites OEQA,
oxtimes <b>Program is recognized with conditions.</b> The program is recognized through <u>Spring 2020</u> . The program will be listed as recognized on websites and/or other publications of the OEQA. The institutions of the OEQA.	ne tion may

designate its program as recognized by OEQA, through the time period specified above, in its published materials.

**Subsequent action by the institution:** To retain accreditation, a report addressing the conditions to recognition must be submitted within 18 months of the date of this report, no later than <u>Fall 2019</u>. **The program has up to two opportunities within the 18 months to address conditions.** The report must address the conditions specified in the box below. Failure to submit a report by the date specified above will result in loss of recognition.

☐ **Program is recognized with probation.** This determination is appropriate only for programs which have been previously recognized. The program is recognized through [date to be filled in by OEQA]. The program will be listed as recognized on websites and/or other publications of the OEQA. The institution may designate its program as recognized by OEQA, through the time period specified above, in its published materials.

**Subsequent action by the institution:** To retain accreditation, a report addressing the concerns identified in the recognition report must be submitted within 12 months of the date of this report, no later than [date to be filled in by OEQA]. The unit has the option of submitting a new report for recognition within the same time frame. Failure to submit a report by the date specified above will result in loss of recognition.

□ **Further development required.** This determination is appropriate only for programs which have not been previously recognized and indicates the program does not yet satisfy requirements for recognition. **Subsequent action by the institution:** A report addressing the concerns identified in the recognition report must be submitted within 12 months of the date of this report, no later than [date to be filled in by OEQA]. The unit has the option of submitting a new report for recognition within the same time frame. Failure to submit a report by the date specified above will result in program status changed to Not Recognized.

☐ **Program is not recognized.** Programs that retain recognition from a prior review will lose recognition at the end of the semester in which the accreditation visit is held, unless a revised program report is submitted in or before that semester.

**Subsequent action by the institution:** A revised report, addressing unmet competencies, may be submitted within 18 months of the date of this report, no later than <a href="[date to be filled in by OEOA]">[date to be filled in by OEOA]</a>. The institution may submit a new program report at any time. Another program report must be submitted before the next accreditation visit.

For further information on due dates or requirements, contact Angie Bookout or Renee Launey-Rodolf at the OEQA (405-522-5399).

- ☑ Recognition with conditions: The following conditions must be addressed within 18 months (see above for specific date):
- 1. Assessment #1 should show the alignment between the subareas on the OSAT for which data is available and the NCTM Mathematical Domains. There is no need to include discussion of the rubric since this assessment is scored by Pearson and is confidential.
- 2. Assessment #2 should list the Standard.elements aligned to each required math course in the final GPA data table. Only Standards 1 and 2 should be included in this assessment.
- 3. Assessment #3 should indicate the number of Lesson Plans evaluated for each candidate. The assessment should include a data table with the frequency at each score-level for each aligned entry of the scoring guide; a description is needed for the process of obtaining the

mean results in the final data table. The criterion for each level in the rubric, Unacceptable to Exceeds Expectations should inlcude NCTM element level language. The criteria are defined in generic eduation terms and aligned with the NCTM standards but should be more specifically developed to represent the NCTM standards and elements.

- 4. Assessment #4 should include a data table with the frequency at each score level for each aligned entry of the scoring guide; a description is needed for the process of obtaining the mean results in the final data table.
- 5. Assessment #5 should include a data table with the frequency at each score level for each aligned entry of the scoring guide; a description is needed for the process of obtaining the mean results in the final data table.
- 6. Assessment #6 should indicate the number of proofs evaluated for each candidate. The assessment should include a data table with the frequency at each score-level for each aligned entry of the scoring guide; a description is needed for the process of obtaining the mean results in the final data table.
- 7. The table in Section I of the report which list the years and number of candidates needs to reflect the years and number of candidates reported in the data tables in Section IV of the report.
- 8. Section I Part 2 should provide a description of the field experiences that are specific to matheamtics education in order to meet Standards 7a and 7b.

For examples of rubrics and data tables see http://caepnet.org/accreditation/caep-accreditation/spa-standards-and-report-forms/nctm.

\*For new programs, the completion of Section 5 is an automatic condition.

Professional Development of Faculty Documentation

# DEPARTMENTAL DOCUMENTATION OF PROFESSIONAL DEVELOPMENT

Name	Professional Training Attended	Location	Date
Carol Fowlkes	NCTM annual meeting	San Francisco, CA	4/13-4/16
Carol Fowlkes	OACTE/OCTP/OATE Program Review Training	University Central Oklahoma	
Carol Fowlkes	CAEP Program Reviewer Training sessions	webinar	23 Oct-15 14 Sep-15
			117000 10

# DEPARTMENTAL DOCUMENTATION OF PROFESSIONAL DEVELOPMENT

Name	Professional Training Attended	Location	Date
Carol Fowlkes	OACTE/OCTP/OATE Program Review Training	Postal Center Norman OK.	oct 28 2016
Carol Fowlkes	CAEP Program Reviewer Training sessions	webinar	May 15 2017

# DEPARTMENTAL DOCUMENTATION OF PROFESSIONAL DEVELOPMENT

Name	Professional Training Attended	Location	Date
Carol Fowlkes	OACTE/OCTP/OATE Program Review Training	Southern Nazarene University	
Carol Fowlkes	CAEP Program Reviewer Training sessions	webinar	9 Feb-18 May 2 2018
Harold Kihega	National Science Foundation/Keller collaboration	Washington D.C.	0 No. 47
Harold Kihega	National Science Foundation/Keller collaboration	Washington D.C.	9 Nov-17 11 Apr-18

# DOCUMENTATION OF PRESENTATIONS OR SEMINARS GIVEN

Name	Presentations/Seminars Given	Location	Date
Harold Kihega	Biology program presentation	Round table breakfast, North Campus	10 Jan-18
Harold Kihega	Biology program presentation	Round table breakfast, South Campus	17 Jan-18
Harold Kihega	Biology program presentation	Board of trustees, South Campus	2/19/18

Strategic Plans and Budgets Related to Program (WIG Notebook)

# Evaluation of SPU Progress (Using Goals as the Measure)

		Resources Used	Summary of Evaluation Results	How were results used to make	Percentage
1	Develop physics engineering with robotics emphasis major	Rose State Fablab contacts	1.1.1 Develop program outcomes was accomplished	Improvements? The School of Math and Science has determined that to attract more students to	Achieved 50%
		FIRST (For Inspiration and Recognition of Science and Technology)	1.1.2 Develop student outcomes - did not progress this far	MACU and to science we need to offer a biology program instead of a robotics emphasis.	
			1.1.3 Write course descriptions for new courses to be added - did not propress this far		
			1.1.4 Take proposal to approve (develop) program to faculty meeting after collecting necessary signatures. This was accomplished and was approved by the faculty, however, it was not approved by the University Senate		
1.1.1 Develop physics engineering with robotics emphasis major    The State Fablab contacts   1.1.1 Develop program outcomes was accomplished   1.1.2 Develop student outcomes - did not progress his far   1.1.4 per proposal to approve develop program to faculty meaning after collecting necessary signatures. This was accomplished and was approved by the University Senate   1.1.5 Begin after sollecting necessary signatures. This was occomplished and was approved by the University Senate   1.1.5 Begin after sollecting necessary signatures. This was occomplished and was approved by the University Senate   1.1.5 Begin after sollecting necessary signatures. This was not approved by the University Senate   1.1.5 Begin after sollecting necessary signatures. This was not approved by the University Senate   1.1.5 Begin after sollecting necessary signatures. This was not approved by the University Senate   1.1.5 Begin after sollecting necessary signatures. The was not approved by the University Senate of the new contact. Dr. Fowlkes did attend FLL competitions and was a judge to meet new contact. Dr. Fowlkes also was a First Robotics Competition judge at Newcastle to meet new contact. Dr. Fowlkes also was a First Robotics Competition judge at Newcastle to meet new contact. Dr. Fowlkes also was a First Robotics Competition judge at Newcastle to meet new contact. Dr. Fowlkes also was a First Robotics Competition judge at Newcastle to meet new contact. Dr. Fowlkes also was a First Robotics Competition so the form of the Physics program of the Physics p					
	1.2 Develop Secondon, Sainne in Division		recruit students. Dr. Fowlkes did attend FLL competitions and was a judge to meet new contact. Dr. Fowlkes also was a First Robotics Competition judge at Newcastle to meet new contacts.		
	1.2 Develop Secondary Science in Physics major		proposal to develop again. This was not discussed because of the robotics proposal as well as the deletion of the Physics program	The School of Math and Science can now focus on science education utilizing the biology track which will attract more students.	0%
			1.2.2 present proposal to develop secondary science major to University senate (already have approval to develop from faculty). This was not accomplished - see action step 1.2.1		
			1.2.3 Develop proposed plan for secondary science to present faculty for approval pending CAEP approval. Not accomplished		
			1.2.4 Write program review using CAEP standards for science alignment. Not accomplished.		
2 2	2.1 Establish partnership with OCCC math/science department		this action step.	The School of Math and Science will continue with this goal of establishing partnerships,	0%
		_	write a state grant to partner with OCCC and establish office hours and contacts but this grant was not approved.	specifically with the Chemistry department	
2 2	2 Establish neglectric in 20 and		2.1.3 Establish office hours at OCCC		
z m	.2 Establish partnership with Rose State nath/science department		2.1.1 meet with advisors. We did meet with the directors of the FabLab and professors in this		33%

2.1.2 Volunteer to be a guest lecturer. We did write a state grant to partner with Rose State and establish office hours and contacts but this grant was not approved.	
was not approved. 2.1.3 Establish office hours at Rose State	

GL Description	GL S	Sub	2012-2013 Actuals	2013-14 Actuals	2014-15 1st Otr Actuals	2014-15 Budget	2015-16 Approved Budget
445 - School of Mathematics & Science		_				- To Budget	Dauget
Salaries - General	80200		7,528.53	86,053.45	27,925.90	113,096.38	145 050 04
Salaries - Adjunct	80210		- ,020.00	17,079.66	27,923.90		115,358.31
Employer Tax Expense	80400		575.91	7,063.01	1 0 4 5 77	18,257.22	17,545.00
Retirement	80410		- 373.91		1,845.77	7,425.57	7,395.69
Insurance - Group	80420			2,309.53	773.29	3,131.72	3,131.78
Unemployment Taxes	80430			12,952.99	4,309.56	16,713.84	19,567.73
Moving Expense	80530	-		361.82	17.55	361.80	361.80
Professional Dues	80650		<del>-</del>	5,000.00		-	
Instructional Supplies						-	1,000.00
Copier Supplies	80700	_	943.73	2,124.08	-	750.00	750.00
Commercial Printing	80710			-	-	180.00	180.00
Postage	80730			65.00	-	-	
	80740		-	26.00	-		
Furniture & Equipment	81710			408.00	-		
	То	tal:	\$ 9,048.17	\$ 133,443.54	\$ 34,872.07	\$ 159,916.53	\$ 165,290.31
Capital Expenditures						7 100,010,00	<del>+ 100,200.01</del>
Dept #	Department Na	me		Description			Tatal
445	Math and science		Furn & Fix	Physics lab			<b>Total</b> \$ 9,000.00

## Evaluation of SPU Progress (Using Goal as the Measure)

Objective No	The state of the s	Resources Used	Summary of Evaluation Results	How were results used to make improvements?	Percentage Achieved
	1.1 Develop Biology major		Faculty/senate approved proposal to approve biology major	Starting with 29 biology majors in fall of 2017	100%
	1.1.1 Develop program autoomes		developed program outcomes but will continue assessment process as courses are added	7.7	100%
	1.1.2 Develop student outcomes		two courses developed: Biology I for majors with lab and Anatomy and Physiology I with lab and student learning outcomes being developed for assessment.		5%
	1.1.3 Write course descriptions for new courses to be added		All course descriptions for 70 biology and supporting course hours were written and approved and in catalog.		100%
	1.1.4 Take proposal to approve program to faculty meeting after collecting necessary signatures		Faculty/senate approved proposal to approve biology major		100%
,	1.1.5 Begin advertising new major		Asked admissions to send out notification to high schools about new biology major. Not sure if this was accomplished		50%
	1.1.6 Explore funding options for Chemistry/Microbiology Lab		We have established partnership with Otoe-Missouria tribe for \$20,000 lab equipment. We are still exploring options with the OM tribe for future funding for labs and lab rooms. Working with Dr. McDowell to explore options for new laboratories to be built. Met with Chemistry chair at OCCC to arrange lab use there.		100%
1	1.2 Develop Secondary Science in Biology major		This has not been developed yet	not used	0%
	1.2.1 Write program review		this has not been done		0%
2	2.1 Establish partnership with Otoe-Missouria tribe			We have secured \$20,000 which allowed us to start a semester early by offering Biology 1 and A&P I in the spring. We were able to supply two labs with this money.	100%

2.1.1 Develop Spring Break/summer STEM camp for OM students	This was developed and was set for May but was postponed by the OM tribe until future date	100%
2.1.2 Offer scholarships for OM student mentors	This was not accomplished	
2.1.3	and the decomplished	0%
3.1		
3.1/1		
3.1.2		
3.1.3		

## Mid-America Christian University Budget 2016-2017

## 445 - School of Mathematics & Science

epartment co	nde GL Description	GL		201	I3-14 Actuals	2014	l-15 Actuals	2015-2016 1st & 2nd Qtr Actuals	2015 2016 Budoot	2016-2017
445	Professional Dues	80650			-	201	TO Notaals	Actuals	2015-2016 Budget	Proposed Budge
445	Instructional Supplies	80700			2,124.08		1 042 50	4 400 07	1,000.00	
445	Copier Supplies	80710			2,124.00	-	1,043.58	1,498.07	750.00	2,000.00
445	Commercial Printing	80730			65.00				180.00	100.00
445	Postage	80740		_	26.00					
445	Furniture & Equipment	81710			408.00	-	<u>-</u>	<u>-</u>		
			Total:	\$	2,623.08	\$	1,043.58	\$ 1,498.07	\$ 1,930.00	\$ 2,100.00

## Evaluation of SPU Progress (Using Goal as the Measure)

Objective No.		Resources Used	Summary of Evaluation Results	How were results used to make Improvements?	Percentag
	Hire full-time Chemistry/biology professor (Priority A)	Dr. Shore at OCCC	A full-time chemistry professor was hired, Dr. Deshani Fernando, on 5/15/2018	We will now develop Chemistry 2, and organic chemistry 1 and 2.	Achieved 100%
1	1.2 Hire full-time lab instructor (Priority A)		We used student workers as lab		0%
2	2.1 After hiring lab assistant provide resources to develop a safety protocol for MACU (Priority A)		assistants for athletes that missed lab  By hiring Dr. Fernando we will be able to develop a lab safety protocol for MACU		50%
1	3.1 Get multiple estimates on cost of building and supplies for Chemistry/Microbiology lab (Priority A)		We ordered supplies for Chemistry 1 and secured articulation with OSSM for		50%
4	4.1 Provide stipends for student workers in STEM camp (Priority B)		Chemistry labs STEM camp was cancelled due to lack of		0%
5	5.1 Write program review for Secondary Science with Biology emphasis		interest from Frontier students.		0%
					0 /6

	Mid-America Christian University 2017-2018 Proposed Budget					Projec	ciail Expenses fo	r 2017			1	700	cted Expenses to	W 2018		7	
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F	Monthly Experies Totals >	1	- 13	1,500		772	Sautember 3 3,070	October 1 2,620	3 2,719	Dagambar 3 8.371	Junuary 3 7,050	Felicuary 1 2,350	March 2,100	April	May 2,650	YR TOTAL	
	% of Total Departmental Budget > 848	0.	0%	25.7%	10	0.0%	7.43	6.85	6.79	22.8*	2,05	6.7%	1.11		75 4.0	3 41,100	1
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Other Pertinent/Substantive Evidence (i.e. Student Scores on non-MACU Standardized Tests (State/National/Professional); Feedback from Professional Entities that are non-MACU affiliated

Program Review Evaluation

Program Review Evaluation
School of Math and Science
Mathematics Department

## S.W.O.T. Analysis

## Strengths:

- High Retention Rates. In the 2017-18 Academic Year, the School of Math and Science had one
  of the top 5 retention rates for MACU at 66.67%. This does include Biology majors, as well. If
  students are leaving, it is because of financial reasons as stated by students. We also have lost a
  few that wanted engineering degrees but came to MACU to get their basics for the first few
  years and play sports.
- High Graduation Rates. We have graduated 12 over the past 3 years.
- Graduates with good jobs and success. Of the 12 graduates, 5 are teaching in the public school systems in Oklahoma and Texas. One has graduated with his master's and worked as a graduate assistant at Northwestern University. 3 are working in the business world, one of those in a government job as an engineer, and one of those started his own business in Brazil. 2 are continuing their education to become a nurse and architect. One is pursuing his master's degree and working on getting accepted into a master's program. 1 of the graduates was MACU's valedictorian in the graduating class of 2016. Also in the graduating classes of 2016 and 2017, the Salutatorians came from the math program.
- Stability in the professors: The chair of the math department has been a professor of math for 20 years at MACU. The adjunct professors have been stable at MACU as well. They are easily accessible by the students because they are employees of MACU as golf coach and business office.
- High ratings on End of Course Evaluations: The professors receive high ratings from the students on the End of Course (EOC) evaluations which shows that students are satisfied with their professors and their knowledge.
- Technology: The technology that the math program utilizes will compare with any large
  university. The program utilizes room 119 which has desktop computers for all students that
  have Geometer's Sketchpad (Dynamic geometry software), Calculus in Motion, Excel, and other
  programs useful for math majors. The students are also required to utilize the latest in graphing
  calculator technology which the professor's utilize as a tool to assist learning.

#### Weaknesses:

Low Enrollment Program. Math is a program that is so needed but is a difficult subject area. It
is a low enrollment program for most colleges. The numbers at MACU have stayed consistent
ranging from 15 to 25, however. My numbers will always include math majors, Math
multidisciplinary majors, and math education majors.

## Opportunities:

Additional majors. The School of Math and Science has been in discussion with the Recruitment
office to discover the most requested majors. One of the top majors that is requested is
Engineering. We are considering adding a Pre-Engineering major which will utilize math and
physics courses. We are also researching the feasibility of adding a Data Analytics major. This
major would require math, statistics and computer science courses so we could add it as a
multidisciplinary option.

### Threats:

- Tuition Costs. The tuition rates are high when compared to state schools. We must keep
  quality high for those students that want a private university with a God-centered focus. We
  must keep the "family" feel at MACU which is what separates MACU from other larger state
  schools.
- Math Education. We are losing our students that come to MACU pursuing a secondary math
  degree because they find out they can be a math major and still teach by utilizing the
  Alternative Certification program for math. While the students are continuing their education at
  MACU, Oklahoma is losing so many of its good teachers because of its lack of pay and
  sometimes impossible requirements.

## **Closing Summation**

In closing, the last three years for the mathematics department at MACU has been beneficial to MACU. We have seen the start of a biology program for which the math department teaches many required courses for those students preparing to go into the medical fields. The math program has also prepared students to start businesses, be successful problem solvers in their chosen vocation, and teach middle school and high school students in a state that is begging for good, quality teachers.

The math program fulfills the mission of the university by allowing students to create, collaborate, and innovate to solve local and global problems. The strategic planning shows that the program has a vision for the future to continue to be relevant in an ever-changing society. The Wildly Important Goals (WIGs) of the math program show that the professors care about each student and listen to their students wants and needs to accommodate those students while still challenging them in a very rigorous discipline.

The future is bright as the math program continues to look for concentrations or new majors that will fulfill the mission of MACU and attract more students. The math program truly is making a difference in the lives of the students it serves.

## Quotes from recent graduates

2016 graduate who is teaching: "Going through MACU's math program made me a more confident person and helped me become the patient teacher I am today."

2017 graduate who is an RN (Salutatorian at MACU): "The math program at MACU challenged me. The classes helped shape my ability to think logically and to build persistence in figuring out the problem in areas I struggled in. The faculty were there every step of the way to help me with whatever I may have needed to succeed."

2018 graduate who is getting his certification in architecture: "I don't know where to start. If it wasn't for MACU's math program I wouldn't be where I am right now. Thanks to this program I was able to go through college and get my bachelor's degree. The math program really helps you improve in every field of math and the teachers are amazing. They help you with everything until you understand it 100%.

2016 graduate who completed Master's as graduate assistant: "Provided me opportunities to grow and learn more about math and myself as a person and has provided me ample career opportunities time and time again after graduating! The faculty and staff created a culture that I could thrive in by displaying confidence and Christ-like traits and I appreciate that the most about MACU's math program."

2016 graduate who is teaching: "Our math department was amazing. Being in a small and tight knit group was better than I could have hoped for. It taught me a lot about working with others and that different people learn in different ways. That, along with the professors, inspired me to step out and try teaching. I'm in my 2<sup>nd</sup> year of teaching and I can honestly say I never would have done it without the math department and its professors. I enjoy the challenges and I often think back on our classes to find ideas on how to better myself and my classroom productivity."

2016 graduate who is working in the business world (Valedictorian at MACU): "MACU's math program taught me to use critical thinking when solving problems. The professors helped me to succeed, and now I have a degree in a subject I love."

# Program Review Evaluation Mathematics, fall 2018

The Reviewers agree with the S.W.O.T analysis found on pages 115-117 of this Program Review.

Program Chair: Carol Fowlkes, Ph.D.	
Signature Mul Jul	date signed 11-2-2018
Director of Institutional Effectiveness, Ray Dillman, M.A.	
Signature	date signed $11-2-20/6$
Program Director, General Education (CAGS): Trina Arno	ld, M.Ed., MBA
Signature June Sulel	date signed ///3/2011
Chair, General Education (CAS/CAGS): Chet Horn, M.A.	
Signature	date signed 11/02/18
Program Dean (CAS): Esther Rehbein, M.Ed.	
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Vice-President of Academic Affairs, Dr. Sharon Lease	
Signature Hase	date signed 11.5.18