THE MASTER'S UNIVERSITY
DEGREE CHECKLIST

NAME: _____

EMPHASIS: _____

SCHOOL *of* SCIENCE, MATHEMATICS, TECHNOLOGY & HEALTH

Department of Mathematics
B.A. in Mathematics

Students are required to complete 24 Mathematics core units, 24-26 Mathematics emphasis units (see back of form), 37 general education units, and 21 biblical studies units. A minimum total of 122 units are required to graduate.

MATHEMATICS CORE COURSES

Units	Term	
3		CS111 Introduction to Computer Programming
3		MA121 Calculus I
3		MA122 Calculus II
3		MA221 Calculus III
3		MA231 Linear Algebra
3		MA282 Ordinary Differential Equations
3		MA302 Introduction to Mathematical Proof
1		MA400 Mathematics Seminar
1		MA400 Mathematics Seminar
1		MA412 Integrated Review
24		*Total units required for core*

BIBLICAL STUDIES

Units	Term	
3		B121 Essentials of Christian Thought
3		B101 Old Testament Survey I
3		B102 Old Testament Survey II
3		B201 New Testament Survey I
3		B202 New Testament Survey II
3		BTH 321 Christian Theology I
3		BTH 322 Christian Theology I
21		*Total units required*

GENERAL EDUCATION

Units	Term	
3		C100 Spoken Communication
3		E110 English Composition
3		ECN200 Essentials of Economics & Society
3		H211 Essentials of World History I
3		H212 Essentials of World History II
3		H230 Essentials of U.S. History
3		LS150 Essentials of Biology *or* GS150 Essentials of Geology
1		LS150L Essentials of Biology Lab *or* GS150L Essentials of Geology Lab
3		MU190 Essentials of Music & Art
3		P311 Essentials of Philosophy
3		POL220 U.S. Government
3		Literature Survey (choose one - see below*)
3		Literature Elective (choose one - see below * or **)
37		*Total units required for emphasis*

> * E211 / E212 English Literature I or II
> E221 / E222 World Literature I or II
> E231 / E232 American Literature I or II

> ** E120 Introduction to Literature
> E313 Age of Romanticism
> E314 Victoria Age
> E334 The Short Story
> E335 The English Novel
> E374 Studies in Jane Austen
> E404 Studies in John Calvin
> E405 Shakespeare
> E406 Milton
> E415 Contemporary Literature
> E416 Modern British Writers
> E425 20th Century American Literature
> E453 Psychoanalytic Criticism

EMPHASIS COURSES

PURE MATHEMATICS

Units	Term	
2		MA222 Calculus IV
3		MA344 Modern Geometry
3		MA355 Number Theory/History of Mathematics
3		MA383 Complex Analysis
3		MA453 Abstract Algebra I
3		MA482 Topics in Mathematics

ADDITIONAL APPROVED UPPER DIVISION MATHEMATICS COURSES

Units	Term	
3		
3		
3		
26		*Total units required for emphasis*

MATHEMATICS EDUCATION EMPHASIS COURSES

Units	Term	
3		P321* Philosophy of Education
3		MA253 Discrete Mathematics
3		MA262 Elementary Statistics
3		MA344 Modern Geometry
3		MA355 Number Theory/History of Mathematics
3		MA425 Mathematical Modeling
3		MA453 Abstract Algebra I

ADDITIONAL APPROVED UPPER DIVISION MATHEMATICS COURSES

Units	Term	
3		
24		*Total units required for emphasis*

*Can be taken instead of P311 to satisfy the General Education philosophy requirement; teaching credential program prerequisite.

APPLIED MATHEMATICS

Units	Term	
2		MA222 Calculus IV
3		MA253 Discrete Mathematics
3		MA365 Probability
3		MA366 Mathematical Statistics
3		MA383 Complex Analysis
3		MA425 Mathematical Modeling
3		MA463 Introduction to Applied Mathematics
3		MA464 Methods in Applied Mathematics
3		MA482 Topics in Mathematics
26		*Total units required for emphasis*

PRE-ENGINEERING EMPHASIS

Units	Term	
4		PS251 General Physics I
4		PS252 General Physics II
1		MA114 Introduction to Engineering
2		MA221 Calculus IV
3		MA425 Mathematical Modeling
3		MA463 Introduction to Applied Mathematics
3		MA464 Methods in Applied Mathematics

TWO OF THE FOLLOWING:

Units	Term	
3		MA253 Discrete Mathematics
3		MA365 Probability
3		MA366 Mathematical Statistics
3		MA383 Complex Analysis
26		*Total units required for emphasis*

MINOR IN MATHEMATICS

Units	Term	
3		CS111 Introduction to Computer Programming
3		MA121 Calculus I
3		MA122 Calculus II
3		MA221 Calculus III
3		MA231 Linear Algebra
3		MA282 Ordinary Differential Equations

ONE OF THE FOLLOWING

Units	Term	
1		MA400 Mathematics Seminar
1		MA412 Integrated Review

ADDITIONAL APPROVED UPPER DIVISION MATHEMATICS COURSE

Units	Term	
3		
22		*Total units required for each emphasis*