



Name: _____

Emphasis: _____

School of Science, Mathematics, Technology & Health

Department of Mathematics

B.A. in Mathematics Academic Tracking Sheet

New G.E. Requirements (Catalog Years beginning Fall 2018)

Students are required to complete 24 Mathematics Core units, 26-27 Mathematics Emphasis units (see back of form), 37 General Education units, and 21 Bible units. A **minimum total of 122 units** are required to graduate.

<u>Mathematics Core Courses</u>		
Units	Term	
3		MA111 Intro. to Scientific Programming
3		MA121 Calculus I
3		MA122 Calculus II
3		MA221 Calculus III
3		MA231 Linear Algebra
3		MA282 Ordinary Differential Equations
3		MA302 Intro. to Mathematical Proof
1		MA400 Mathematics Seminar
1		MA400 Mathematics Seminar
1		MA412 Integrated Review
24		

<u>General Education</u>		
Units	Term	
3		C100 Spoken Communication
3		E110 English Composition
3		ECN200 Essentials of Econ. & 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 below*)
3		Literature Elective (Choose one below**)
37		

<u>Biblical Studies</u>		
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		BTH321 Christian Theology I
3		BTH322 Christian Theology II
21		

<u>General Electives</u>		
Units	Term	

*Literature Survey Courses		**Literature Elective Courses	
E211/E212 English Literature I or II		E313 Age of Romanticism	E405 Shakespeare
E211/E222 World Literature I or II		E314 Victorian Age	E406 Milton
E231/E232 American Literature I or II		E334 The Short Story	E415 Contemporary Literature
		E335 The English Novel	E416 Modern British Writers
		E374 Studies in Jane Austen	E425 20 th Century American Literature
		E404 Studies in John Calvin	E453 Psychoanalytic Criticism

Emphasis Courses

<u>Purse Mathematics</u>		
Units	Term	
2		MA222 Calculus IV
3		MA344 Modern Geometry
3		MA355 Number Theory/History of Math
3		MA383 Complex Analysis
3		MA445 Real Analysis I
3		MA453 Abstract Algebra I
3		MA482 Topics in Mathematics
<i>Additional approved upper division Mathematics courses:</i>		
3		
3		
26	<i>Total units required for emphasis</i>	

<u>Mathematics Education</u>		
Units	Term	
3		P321 Philosophies of Education*
3		MA253 Discrete Mathematics
3		MA262 Elementary Statistics
3		MA344 Modern Geometry
3		MA355 Number Theory/History of Math
3		MA425 Mathematical Modeling
3		MA453 Abstract Algebra I
<i>Additional approved upper division Mathematics courses:</i>		
3		
3		
27	<i>Total units required for emphasis</i>	

<u>Applied Mathematics</u>		
Units	Term	
2		MA222 Calculus IV
3		MA253 Discrete Mathematics
3		MA366 Probability
3		MA383 Complex Analysis
3		MA425 Mathematical Modeling
3		MA463 Intro. to Applied Mathematics
3		MA464 Methods in Applied Mathematics
3		MA482 Topics in Mathematics
<i>Additional approved upper division Mathematics course:</i>		
3		
26	<i>Total units required for emphasis</i>	

<u>Pre-Engineering</u>		
Units	Term	
3		PS251 General Physics I
1		PS251L General Physics I Lab
3		PS252 General Physics II
1		PS252L General Physics II Lab
1		MAXXX Introduction to Engineering
2		MA222 Calculus IV
3		MA425 Mathematical Modeling
3		MA463 Intro. to Applied Mathematics
3		MA464 Methods in Applied Mathematics
<i>Two of the following:</i>		
3		MA253 Discrete Mathematics
3		MA366 Probability
3		MA383 Complex Analysis
26	<i>Total units required for emphasis</i>	

<u>Minor in Mathematics</u>		
Units	Term	
3		MA111 Intro. to Scientific Programming
3		MA121 Calculus I
3		MA122 Calculus II
3		MA221 Calculus III
3		MA231 Linear Algebra
3		MA282 Ordinary Differential Equations
<i>One of the following:</i>		
1		MA400 Mathematics Seminar
1		MA412 Integrated Review
<i>Additional approved upper division Mathematics course:</i>		
3		
22	<i>Total units required for minor</i>	

*Can be taken instead of P311 to satisfy the General Education philosophy requirement.

TMU Graduation Requirements (from the catalog):

The Master's University grants bachelor's degrees (i.e. Bachelor of Arts, Bachelor of Music, and Bachelor of Science) to students who satisfy the graduation requirements described below.

1. Complete a minimum of 122 semester units of credit.
2. Complete a minimum of 40 semester units in upper division courses.
3. Satisfy all General Education requirements.
4. Complete the required curriculum for the chosen major field(s) of study.
5. Maintain a minimum GPA of 2.00 (cumulative) in all TMU courses and in one's major(s).
6. Complete a minimum of 32 semester units of non-Directed Studies coursework at TMU or 32 semester units of TMU Degree Completion Program major courses.
7. Complete at least 12 of the final 24 semester units at TMU.

All students must be aware that they undertake complete responsibility for managing their progress toward graduation. Faculty advisors will attempt to assist in this process; however, given the fluidity of student progress, each student must ultimately assume responsibility for their graduation progress.