



**TMU Graduation Requirements**

Complete a minimum of 121 semester units of credit.  
 Complete a minimum of 40 semester units in upper division courses. Includes 300 & 400 level courses.  
 Satisfy all General Education requirements.  
 Complete the required curriculum for the chosen major's field(s) of study.  
 Maintain a minimum GPA of 2.00 (cumulative) in all TMU Courses. *Some majors have different GPA requirements.*  
 Complete a minimum of 32 semester units at TMU, not including Directed Studies coursework.  
 A maximum of 12 units can be transferred to complete degree requirements after the last 12 units taken at TMU.

**GENERAL EDUCATION**

**SCRIPTURE SET** *Students transferring with ≥ 61 total units may need to satisfy fewer than 7 Bible G.E. courses as evaluated and confirmed by the Registrar's Office prior to the start of the student's first undergraduate semester. All other students must satisfy all 7 Bible G.E.*

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*

Units	Term	
3		B202 New Testament Survey II
3		BTH321 Christian Theology I
3		BTH322 Christian Theology II
21	Total	<i>*Or Non-Biblical Studies: IBEX300 with approval</i>

**WORLDVIEW AND SKILLS SET** *Depending on the student's major, certain G.E. requirements allow for substitutions.*

Units	Term	Course	Substitution
3		C100 Spoken Communication	<u>Biblical Studies</u> : BMN312 Women Teaching Women, or BMN371 Sermon Preparation. <u>Business Administration, Entrepreneurship, Marketing Media, &amp; Sport Management</u> : MGT330 Business Communication. <u>BM Music</u> : not required.
3		E110 English Composition	31+ score ACT: English Section 3+ score AP Language & Composition Exam 3+ score AP Literature & Composition Exam 5+ score Criterion Online Writing Evaluation Service from ETS 700+ score SAT 1: Evidence-Based Reading & Writing section 10+ score WriterPlacer exam from Collegeboard
3		ECN200 Essentials of Economics & Society	<u>BM Music</u> : not required.
3		H211 Essentials of World History I	<u>ALL</u> : Pass World History Competency Exam & 3 units of Upper Division History units.
3		H212 Essentials of World History II	<u>BM Music</u> : H211 or H212. <u>Single Subject Teaching Credential</u> : both H211 & H212.
3		H230 Essentials of U.S. History	n/a
3		Literature Elective	Does not include: E330, E322, E353, E364, E435, E436, E491A, E491B. <u>BM Music</u> : not required.
3		Literature Survey	E200 Great Works of Literature Survey, E211 English Literature I, E212 English Literature II, E221 World Literature I, E222 World Literature II, E231 American Literature I, or E232 American Literature II.
3		LS150 Essentials of Biology or GS150 Essentials of Geology	<u>Biological &amp; Physical Science</u> : LS151 Organismic Biology, LS151L Organismic Biology Lab. <u>Engineering</u> : CH151 General Chemistry I, CH151L General Chemistry I Lab.
1		LS150L Essentials of Biology Lab or GS150L Essentials of Geology Lab	<u>Kinesiology</u> : LS151 Organismic Biology, LS151L Organismic Biology Lab.
3		MA240 Critical Thinking & Quantitative Analysis	<u>Business Administration, Entrepreneurship, Marketing Media, &amp; Sport Management</u> : BUS310 Statistics for Business. <u>Computer Science, Engineering, &amp; Mathematics</u> : not required. <u>ALL</u> : MA101 College Algebra & MA102 Trigonometry, or MA121 Calculus, or MA260 Elementary Statistics.
3		MU190 Essentials of Music & Art	<u>ALL</u> : ART338 Art History of the Western World. <u>Biblical Studies</u> : BMN333/MU333 Worship & Songs of the Church. <u>Music</u> : MU295 Music & Art for Musicians.
3		P311 Essentials of Philosophy	<u>Biblical Studies</u> : BCW363 Apologetics. <u>Music Production</u> : BCW367 Ethics. <u>Business Administration, Entrepreneurship, Marketing Media, &amp; Sport Management</u> : BUS330 Business Ethics. <u>English Ed., History Ed., Liberal Studies/Elementary Ed., Liberal Studies/Special Ed., Life Sciences Ed., Mathematics Ed., Music Ed.</u> : P321 History and Philosophies of Education.
3		POL220 U.S. Government	Only waived for non-U.S. citizens and non-resident aliens. U.S. Citizens (regardless of current country of residence) and resident aliens are NOT exempt.
40	Total	37 for Computer Science, Engineering, & Mathematics majors 28 for BM Music majors	

**MAJOR: MATHEMATICS CORE COURSES**

Units	Term	
3		CS121P Introduction to Computer Programming
3		MA121 Calculus I
3		MA122 Calculus II
3		MA221 Calculus III
3		MA231 Linear Algebra

Units	Term	
3		MA282 Ordinary Differential Equations
3		MA302 Introduction to Mathematical Proof
2		MA400 Mathematics Seminar
1		MA412 Integrated Review
24		Total

**EMPHASIS: 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 Numerical Analysis
3		MA482 Topics in Mathematics
3		Upper Division Math Elective
50		Total (including Core courses)

**EMPHASIS: PRE-ENGINEERING**

Units	Term	
4		PS251 University Physics I*
4		PS252 University Physics II*
2		MA222 Calculus IV
3		MA311 Probability and Statistics for Engineers
3		MA383 Complex Analysis
3		MA425 Mathematical Modeling
3		MA463 Numerical Analysis
3		MA482 Topics in Mathematics
49		Total (including Core courses)

*\*With corresponding lab.*

**EMPHASIS: MATHEMATICS EDUCATION**

Units	Term	
3		MA253 Discrete Mathematics
3		MA260 Elementary Statistics
3		MA344 Modern Geometry
3		MA355 Number Theory & History of Mathematics
3		MA425 Mathematical Modeling
3		MA453 Abstract Algebra I
3		P321 History and Philosophies of Education*
3		Upper Division Math Elective
48		Total (including Core courses)

*\*Pre-req. for teaching credential program. Fulfills G.E. requirement for P311.*

**EMPHASIS: 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
9		Upper Division Math Electives
50		Total (including Core courses)

**MINOR: MATHEMATICS**

3		CS121P 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
1		MA400 Mathematics Seminar
1		or MA412 Integrated Review
3		Additional upper division Mathematics elective
22		Total