TMU Graduation Requirements

Complete a minimum of 122 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 (cummulative) 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	Course		Units	Term	Course
3		B121 Essentials of Christian Thought		3		B202 New Testament Survey II
3		B101 Old Testament Survey I		3		BTH321 Christian Theology I
3		B102 Old Testament Survey II*		3		BTH322 Christian Theology II
3		B201 New Testament Survey I*		21	Total	*Or Non-Biblical Studies: IBEX300 with approval*

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	Biblical Studies: BMN312 Message Prep for Women, or BMN370 Sermon Prep & Delivery. Business Administration, Entrepreneurship, Marketing Media, & Sport Management: MGT330 Business Communication. BM Music: 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	BM Music: not required.
3		H211 Essentials of World History I	ALL: Pass World History Competency Exam & 3 units of Upper Division History units.
3		H212 Essentials of World History II	BM Music: H211 or H212. ALL: Both req. for Single Subject Teaching Credential.
3		H230 Essentials of U.S. History	n/a
3		Literature Elective	Does not include: E330, E353, E364, E435, E436, E491A, E491B. BM Music: 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	Biological & Physical Science: LS151 Organismic Biology. Engineering: CH151 General Chemistry I. Kinesiology: LS321 Anatomy & LS322 Physiology.
1		LS150L Essentials of Biology Lab *or* GS150L Essentials of Geology Lab	Biological & Physical Science: LS151L Organismic Biology Lab. Engineering: CH151L General Chemistry I Lab. Kinesiology: LS321L Anatomy Lab & LS322L Physiology Lab.
3		MA240 Critical Thinking & Quantitative Analysis	Business Administration, Entrepreneurship, Marketing Media, & Sport Management: BUS310 Statistics for Business. Computer Science, Engineering, & Mathematics: not required. ALL: MA101 College Algebra & MA102 Trigonometry, or MA121 Calculus, or MA260 Statistics.
3		MU190 Essentials of Music & Art	Biblical Studies: BMN333/MU333 Worship & Songs of the Church. Music: MU295 Music & Art for Musicians. ALL: ART338 Art History of the Western World.
3		P311 Essentials of Philosophy	Biblical Studies: BCW363 Apologetics. Music Production: BCW367 Ethics. Business Administration, Entrepreneurship, Marketing Media, & Sport Management: BUS330 Business Ethics. English Ed., History Ed., Liberal Studies/Teacher Ed., Life Sciences Ed., Mathematics Ed., Music Ed.: P321 History and Philosophies of Education.
3		POL220 U.S. Government	Only waived for non-U.S. citizens (regardless of current country of residence) and non-resident aliens.

40 Total   *(37 for Computer Science, Engineering & Mathematics majors, 28 for BM Music majors.)*

Students are responsible for managing their own progress towards graduation. Faculty advisors are available to assist; however, given the fluidity of student progress, all students will ultimately assume responsibility for their graduation progress. This checklist does not replace the Academic Catalog.

MAJOR: **COMPUTER SCIENCE**

Units	Term	
3		CS121P Introduction to Computer Programming
3		CS122J JavaScript Essentials
3		CS132S Data Structures & Algorithms
3		CS202H Computer Hardware
3		CS301A Computer Organization & Architecture
3		CS312N Networking Principles & Architecture
3		CS321O Operating Systems
3		CS321P Programming Languages & Theory
3		CS322A Algorithms & Complexity
3		CS322E Software Engineering
3		CS342D Database Management Systems
3		CS351S Computer Security
2		CS490I Internship*

Units	Term	
3		CS492S Senior Seminar
3		MA121 Calculus I
3		MA122 Calculus II
3		MA231 Linear Algebra
3		MA253 Discrete Mathematics
3		MA260 Elementary Statistics

3 units of the following:

Units	Term	
3		CH151 General Chemistry I
3		GS150 Essentials of Geology**
3		LS150 Essentials of Biology**
3		PS251 General Physics I
59	Total	

*1 unit required for Electrical Engineering emphasis.

**If not taken to satisfy Gen Ed requirement.

EMPHASIS: **ARTIFICIAL INTELLIGENCE**

Units	Term	
3		CS361A Artificial Intelligence
3		CS361M Machine Learning
3		CS362N Natural Language Processing
3		CS362V Computer Vision
71	Total (including Core courses)	

EMPHASIS: **COMPUTING SYSTEMS**

Units	Term	
3		CS302C System Programming & C/C++
3		CS321X Linux
3		CS322J Java Programming
3		CS341W Web Application Development
71	Total (including Core courses)	

EMPHASIS: **ELECTRICAL ENGINEERING**

Units	Term	
3		ECE311 Analog Circuits
1		ECE311L Analog Circuits Lab
3		ECE312 Microelectronics
1		ECE312L Microelectronics Lab
3		ECE321 Digital System Design
2		ECE321L Digital Design Lab
71	Total (including Core courses)	

EMPHASIS: **INFORMATION SYSTEMS**

Units	Term	
3		ACC210 Accounting Fundamentals I
3		CS311C Cloud Administration
3		CS392M Project Management & Enterprise Software
3		MGT310 Management Theory
71	Total (including Core courses)	

EMPHASIS: **MATHEMATICS**

Units	Term	
3		MA221 Calculus III
3		MA282 Ordinary Differential Equations
3		MA365 Probability
3		Additional Upper Division Mathematics Elective
71	Total (including Core courses)	

EMPHASIS: **MECHANICAL ENGINEERING**

Units	Term	
3		ME211 CAD & SolidWorks
1		ME211L CAD Lab
3		ME301 Statics & Mechanics of Materials
1		ME301L Statics Lab
3		ME302 Dynamics
1		ME302L Dynamics Lab
71	Total (including Core courses)	

MINOR: **COMPUTER SCIENCE**

Units	Term	
3		CS121P Introduction to Computer Programming
3		CS132S Data Structures & Algorithms
3		CS202H Computer Hardware
3		CS301A Computer Organization & Architecture
3		CS312N Networking Principles & Architecture

Units	Term	
3		CS321O Operating Systems
3		CS321P Programming Languages & Theory
3		CS322E Software Engineering
3		CS342D Database Management Systems
27	Total (including Core courses)	

Students are required to complete all GE requirements, all Major requirements, and necessary electives to meet a minimum of 122 units and 40 upper division units.