

THE MASTER'S UNIVERSITY DEGREE AUDIT CHECKLIST 2024-2025 ACADEMIC CATALOG

#### 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  $\geq$  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	*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	
			Biblical Studies: BMN312 Message Prep for Women, or BMN370 Sermon Prep & Delivery.	
2	3	C100 Spoken Communication	Business Administration, Entrepreneurship, Marketing Media, & Sport Management: MGT330	
5		C100 Spoken communication	Business Communication.	
			BM Music: not required.	
			31+ score ACT: English Section	
			3+ score AP Language & Composition Exam	
3		E110 English Composition	3+ score AP Literature & Composition Exam	
5			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	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. <u>BM Music</u> : not required.	
			E200 Great Works of Literature Survey, E211 English Literature I,	
3		Literature Survey	E212 English Literature II, E221 World Literature I, E222 World Literature II,	
			E231 American Literature I, or E232 American Literature II.	
		LS150 Essentials of Biology	Biological & Physical Science: LS151 Organismic Biology.	
3		or GS150 Essentials of Geology	Engineering: CH151 General Chemistry I.	
			Kinesiology: LS321 Anatomy & LS322 Physiology.	
		LS150L Essentials of Biology Lab	Biological & Physical Science: LS151L Organismic Biology Lab.	
1		or GS150L Essentials of Geology Lab	Engineering: CH151L General Chemistry I Lab.	
			Kinesiology: LS321L Anatomy Lab & LS322L Physiology Lab.	
			Business Administration, Entrepreneurship, Marketing Media, & Sport Management: BUS310	
3		MA240 Critical Thinking & Quantitative	Statistics for Business.	
5		Analysis	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.	
5			Music: MU295 Music & Art for Musicians. <u>ALL</u> : ART338 Art History of the Western World.	
			Biblical Studies: BCW363 Apologetics. Music Production: BCW367 Ethics.	
			Business Administration, Entrepreneurship, Marketing Media, & Sport Management: BUS330	
3		P311 Essentials of Philosophy	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	
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40	Total	(27 for Computer Science, Engineering & Mathematics		

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.

## SCHOOL of SCIENCE, MATHEMATICS, TECHNOLOGY, & HEALTH

Department of Engineering & Computer Science **B.S.** in Computer Engineering **B.S.** in Electrical Engineering B.S. in Mechanical Engineering

### **ENGINEERING CORE COURSES**

Units	Term	
4		CH151 General Chemistry I*
1		CH153L Chemistry Lab for Engineers
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		MA253 Discrete Mathematics
3		MA282 Ordinary Differential Equations
3		MA365 Probability
4		PS251 General Physics I*
2		ECE/ME112 Theology of Technology
1		ECE/ME491 Senior Capstone
36	Total	*with corresponding lab.

#### MAJOR: COMPUTER ENGINEERING

Units	- Ferm
3	CS132S Data Structures & Algorithms
3	CS202H Computer Hardware
3	CS301A Computer Organization & Architecture
3	CS3210 Operating Systems
3	ECE301 Semiconductors
3	ECE311 Analog Circuits
1	ECE311L Analog Circuits Lab
3	ECE312 Microelectronics
2	ECE312L Microelectronics Lab

Units	Term	
3		ECE321 Digital System Design
1		ECE321L Digital Design Lab
3		ECE322 Signals and Systems
3		ECE401 Digital Signal Processing
1		ECE401L DSP Lab
1		ECE401E DSP Extension
3		ECE492 Senior Design Project
3		ECS Upper Division Electives
78	Total (inclu	ding Core courses)

ECE321 Digital System Design

Units	Term	
3		CS132S Data Structures & Algorithms
3		CS202H Computer Hardware
3		ECE202 Electromagnetics
1		ECE202L Electromagnetics
3		ECE301 Semiconductors
3		ECE311 Analog Circuits
1		ECE311L Analog Circuits Lab
3		ECE312 Microelectronics
2		ECE312L Microelectronics Lab

#### ECE321L Digital Design Lab 1 3 ECE322 Signals and Systems ECE401 Digital Signal Processing 3 1 ECE401L Digital Signal Processing Lab 3 ECE412 Power Systems ECE492 Senior Design Project 3 3 ECS Upper Division Electives

78 Total (including Core courses)

3

## MAJOR: MECHANICAL ENGINEERING

Units	Term	
3		ECE202 Electromagnetics
1		ECE202L Electromagnetics Lab
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
3		ME311 Thermodynamics

Units	Term		
3		ME312 Heat Transfer	
3		ME321 Machine Design	
3		ME322 Design & Manufacturing	
1		ME322L Manufacturing Lab	
3		ME331 Fluid Mechanics	
3		ME401 Finite Element Analysis	
3		ME492 Senior Design Project	
3		ECS Upper Division Electives	
78	78 Total (including Core courses)		

78 Total (including Core courses)

# MAJOR: ELECTRICAL ENGINEERING Units Term