



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 (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	Course
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	Course
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 Message Prep for Women, or BMN370 Sermon Prep & Delivery. <u>Business Administration, Entrepreneurship, Marketing Media, & Sport Management</u> : MGT330 Business Communication. <u>BM Music</u> : not required.
3		E110 English Composition	3+ score AP Language & Composition Exam 3+ score AP Literature & Composition Exam 31+ score ACT: English Section 10+ score WriterPlacer exam from Collegeboard 5+ score Criterion Online Writing Evaluation Service from ETS 700+ score SAT 1: Evidence-Based Reading & Writing section
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>ALL</u> : 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.
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 & Physical Science</u> : LS151 Organismic Biology. <u>Kinesiology</u> : LS321 Anatomy & LS322 Physiology.
1		LS150L Essentials of Biology Lab or GS150L Essentials of Geology Lab	<u>Biological & Physical Science</u> : LS151L Organismic Biology Lab. <u>Kinesiology</u> : LS321L Anatomy Lab & LS322L Physiology Lab.
3		MA240 Critical Thinking & Quantitative Analysis	<u>Business Administration, Entrepreneurship, Marketing Media, & Sport Management</u> : BUS310 Statistics for Business. <u>Computer Science, Engineering, & Mathematics</u> : not required. <u>ALL</u> : MA101 Algebra & MA102 Trigonometry, or MA121 Calculus, or MA260 Statistics.
3		MU190 Essentials of Music & Art	<u>Biblical Studies</u> : BMN333/MU333 Worship & Songs of the Church. <u>Music</u> : MU295 Music & Art for Musicians. <u>ALL</u> : ART338 Art History of the Western World.
3		P311 Essentials of Philosophy	<u>English Ed., History Ed., Liberal Studies/Teacher Ed., Life Sciences Ed., Mathematics Ed., Music Ed.</u> : P321 History and Philosophies of Education. <u>Music Production</u> : BCW367 Ethics. <u>Biblical Studies</u> : BCW363 Apologetics. <u>Business Administration, Entrepreneurship, Marketing Media, & Sport Management</u> : BUS330 Ethics.
3		POL220 U.S. Government	Only waived for non-U.S. citizens (regardless of current country of residence) and non-resident aliens.
40	Total	<i>(37 for Computer Science, Engineering & Mathematics majors, 28 for BM Music majors.)</i>	

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: BIOLOGY CORE COURSES

Units	Term	
4		CH151 General Chemistry I*
4		CH152 General Chemistry II*
4		CH351 Organic Chemistry I*
4		LS151 Organismic Biology*
1		LS220 Research Methods
4		LS252 Cell Biology*
4		LS342 Genetics and Genomics*
3		LS372 Origins
1		LS420 Seminar in Biology

Units	Term	
1		LS422 Senior Capstone
3		MA260 Elementary Statistics
One of the following:		
4		PS251 General Physics I*
		PS211 College Physics (w/ PS252L)
One of the following:		
4		PS252 General Physics II*
		PS212 College Physics II (w/ PS252L)
41	Total	*With corresponding lab.

EMPHASIS: ANIMAL SCIENCE/PRE-VETERINARY

Units	Term	
4		CH352 Organic Chemistry II*
4		LS312 Animal Physiology*

One of the following:

4		LS241 Ecology and Environmental Science*
		LS341 Ecology*

11 units of the following:

4		CH461 Biochemistry*
4		LS302 Comparative Anatomy*
4		LS318 Conservation Biology & Sustainability*
4		LS331 Developmental Biology*
4		LS341 Ecology*
4		LS346 Marine Biology*
3-4		LS348 Bio. Field Studies**
4		LS355 Parasitology*
4		LS361 Immunology*
4		LS362 Medical Microbiology*
4		LS375 Vertebrate Paleontology*
4		LS388 Mathematical Ecology*
1-4		LS428 Research in Biology
3		MA121 Calculus I

64 Total (including Core courses).

*With corresponding lab.

**Can be repeated for credit.

EMPHASIS: CELLULAR & MOLECULAR BIOLOGY

Units	Term	
4		CH352 Organic Chemistry II*
4		CH461 Biochemistry*

One of the following:

4		LS341 Ecology*
		LS351 Molecular Genetics*

11 units of the following:

4		LS331 Developmental Biology*
4		LS355 Parasitology*
4		LS361 Immunology*
4		LS362 Medical Microbiology*
4		LS388 Mathematical Ecology*
1-4		LS428 Research in Biology
3		MA121 Calculus I

64 Total (including Core courses).

*With corresponding lab.

EMPHASIS: LIFE SCIENCES EDUCATION

Units	Term	
3		ED400 Foundations of Education* (Or ED101, ED202, and ED301)
3		P321 History & Philosophies of Education*, **
14		Biology, Chemistry, & Geology electives

One of the following:

3		ED202 Curriculum Instruction & Learning Theory*
3		ED301 Cultural & Linguistic Diversity in Teaching*

64 Total (including Core courses).

*Teaching Credential pre-req., requires B- or better.

**Fulfills G.E. requirement for P31 I.

MAJOR: BIOLOGY CORE COURSES

Units	Term	
4		CH151 General Chemistry I*
4		CH152 General Chemistry II*
4		CH351 Organic Chemistry I*
4		LS151 Organismic Biology*
1		LS220 Research Methods
4		LS252 Cell Biology*
4		LS342 Genetics and Genomics*
3		LS372 Origins
1		LS420 Seminar in Biology

Units	Term	
1		LS422 Senior Capstone
3		MA260 Elementary Statistics
<i>One of the following:</i>		
4		PS251 General Physics I*
		PS211 College Physics (w/ PS252L)
<i>One of the following:</i>		
4		PS252 General Physics II*
		PS212 College Physics II (w/ PS252L)
41	Total	*With corresponding lab.

EMPHASIS: ENVIRONMENTAL BIOLOGY

Units	Term	
4		LS318 Conservation Biology & Sustainability*
4		GS452 Environmental Geoscience*

One of the following:

4		LS241 Ecology and Environmental Science*
		LS341 Ecology*

11 units of the following:

4		CH352 Organic Chemistry II*
4		GS150 Essentials of Geology*
4		GS152 Historical Geology*
4		GS251 Mineralogy*
4		GS452 Environmental Geoscience*
4		LS302 Comparative Anatomy*
4		LS312 Animal Physiology*
4		LS341 Ecology*
4		LS346 Marine Biology*
4		LS348 Bio. Field Studies**
4		LS355 Parasitology*
4		LS362 Medical Microbiology*
4		LS375 Vertebrate Paleontology*
1-4		LS428 Research in Biology

64 Total (including Core courses).

*With corresponding lab.

**Can be repeated for credit.

EMPHASIS: PRE-ALLIED HEALTH

EMPHASIS: PRE-DENTISTRY

EMPHASIS: PRE-MEDICINE

Units	Term	
4		CH352 Organic Chemistry II*
4		CH461 Biochemistry*

One of the following:

4		LS241 Ecology and Environmental Science*
		LS341 Ecology*

11 units of the following:

4		LS302 Comparative Anatomy*
4		LS321 Human Anatomy*
4		LS322 Human Physiology*
4		LS331 Developmental Biology*
4		LS341 Ecology*
4		LS351 Molecular Genetics*
4		LS352 Medical Physiology*
4		LS355 Parasitology*
4		LS361 Immunology
4		LS362 Medical Microbiology*
1-4		LS428 Research in Biology
3		MA121 Calculus I

64 Total (including Core courses).

*With corresponding lab.

MAJOR: BIOLOGY CORE COURSES

Units Term

4		CH151 General Chemistry I*
4		CH152 General Chemistry II*
4		CH351 Organic Chemistry I*
4		LS151 Organismic Biology*
1		LS220 Research Methods
4		LS252 Cell Biology*
4		LS342 Genetics and Genomics*
3		LS372 Origins
1		LS420 Seminar in Biology

Units Term

1		LS422 Senior Capstone
3		MA260 Elementary Statistics

One of the following:

4		PS251 General Physics I*
		PS211 College Physics (w/ PS252L)

One of the following:

4		PS252 General Physics II*
		PS212 College Physics II (w/ PS252L)

41 Total *With corresponding lab.

EMPHASIS: PRE-NURSING

Units Term

4		LS321 Human Anatomy*
4		LS322 Human Physiology*
4		LS362 Medical Microbiology*

11 units of the following:

4		CH352 Organic Chemistry II*
4		CH461 Biochemistry II*
3		LS231/BE302 Human Growth & Development
4		LS331 Developmental Biology*
4		LS352 Medical Physiology*
4		LS361 Immunology*
1-4		LS428 Research in Biology
3		MA121 Calculus I

64 Total (including Core courses).
*With corresponding lab.

EMPHASIS: PALEONTOLOGY/NATURAL HISTORY

Units Term

4		GS150 Essentials of Geology*, **
4		LS375 Vertebrate Paleontology*

One of the following:

4		LS241 Ecology and Environmental Science*
		LS341 Ecology*

11 units of the following:

4		CH352 Organic Chemistry II*
4		GS152 Historical Geology*
4		GS472 Sedimentology & Stratigraphy*
4		LS302 Comparative Anatomy*
3		LS307 Biology of Dinosaurs
3		LS346 Marine Biology
1-4		LS428 Research in Biology
3		MA121 Calculus I

64 Total (including Core courses).
*With corresponding lab.
**Fulfills G.E. requirement