



School of Science, Mathematics, Technology, & Health
Department of Computer & Information Sciences
B.S. in Computer & Information Sciences

Name: _____
Emphasis: _____
Entered TMU: _____

Academic Tracking Sheet (Effective Fall 2019)

General Education Requirements for CIS Majors (58 Units)			
Term	Units	Course #	Scripture Courses
	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
Term	Units	Course #	Worldview & Skills Courses
	3	C100	Spoken Communication
	3	E110	English Composition
	3	E211 <i>or</i> E212 <i>or</i> E221 <i>or</i> E222 <i>or</i> E231 <i>or</i> E232	English Literature I <i>or</i> English Literature II <i>or</i> World Literature I <i>or</i> World Literature II <i>or</i> American Literature I <i>or</i> American Literature II
	3	E____	[General Literature Elective]
	3	ECN200	Essentials of Economics & Society
	3	H211	Essentials of World History I
	3	H212	Essentials of World History II
	3	H230	Essentials of U.S. History
	3	LS150 <i>or</i> GS150	Essentials of Biology <i>or</i> Essentials of Geology
	1	LS150L <i>or</i> GS150L	Essentials of Biology Lab <i>or</i> Essentials of Geology Lab
	3	MA240	Critical Thinking & Quantitative Analysis
	3	MU190 <i>or</i> ART338	Essentials of Music & Art <i>or</i> Art History of the Western World
	3	P311	Essentials of Philosophy
	3	POL220	U.S. Government

} *or* IBEX300 (6 units)
The Land & the Bible

*CIS majors must complete:
58 GE units,
35 CIS Core units,
18 CIS emphasis units, and
11+ additional units,
for a minimum of
122 total units.*

} *or* pass World History Competency Exam
and 3 units of Upper Division History

waived for CIS majors

waived for non-U.S.-citizen non-U.S.-residents

Graduation Requirements (from TMU Catalog):

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.
6. Complete a minimum of 32 semester units at TMU, not including Directed Studies coursework.
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.



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Computer & Information Sciences Major Requirements: Core + One Emphasis (53 Units)			
<i>Term</i>	<i>Units</i>	<i>Course #</i>	<i>CIS CORE Courses</i>
	3	CIS111	Introduction to Computer Programming
	3	CIS112	Data Structures & Algorithms
	3	CIS202	Computer Hardware
	3	CIS301	Computer Organization & Architecture
	3	CIS302	Database Management Systems
	3	CIS311	Operating Systems
	3	CIS312	Networking Principles & Architecture
	3	CIS321	Programming Languages & Systems
	3	CIS322	Software Engineering
	2	CIS490	Internship
	3	CIS492	Senior Seminar
	3	MA253	Discrete Mathematics
<i>All CIS majors must complete these CIS Core courses, and must also choose one emphasis below (either CIS/CS or CIS/IS).</i>			
<i>Term</i>	<i>Units</i>	<i>Course #</i>	<i>CIS COMPUTER SCIENCE EMPHASIS Courses</i>
	35	<i>CIS Core</i>	<i>See CIS Core Courses (listed above)</i>
	3	CIS331	Web Application Development
	3	CIS332	Linux
	3	CIS351	Computer Security I
	3	MA121	Calculus I
<i>choose two</i>	6	MA122	Calculus II
		MA231	Linear Algebra
		MA262	Elementary Statistics
		_____	[CIS Upper Division Electives]
		_____	[General Upper Division Electives*] * if approved by CIS chair for incorporation into Senior Seminar Capstone Project
<i>Term</i>	<i>Units</i>	<i>Course #</i>	<i>CIS INFORMATION SYSTEMS EMPHASIS Courses</i>
	35	<i>CIS Core</i>	<i>See CIS Core Courses (listed above)</i>
	3	CIS341	Cloud Administration
	3	CIS342	Project Management & Enterprise Software
	3	ACC210	Accounting Fundamentals I
	3	MGT310	Management Theory
<i>choose two</i>	6	MA262	Elementary Statistics
		_____	[CIS Upper Division Electives]
		_____	[General Upper Division Electives*] * if approved by CIS chair for incorporation into Senior Seminar Capstone Project
<i>Information Systems emphasis (CIS/IS) students must complete these courses in addition to the CIS Core.</i>			

CIS Department Requirements (from TMU Catalog):

All CIS majors are required to earn a grade of C or better in all courses in the CIS major.
A student earning a grade below C must repeat the course until a grade of C or above is earned.

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.