



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>	English Literature I <i>or</i>
		E212 <i>or</i>	English Literature II <i>or</i>
		E221 <i>or</i>	World Literature I <i>or</i>
		E222 <i>or</i>	World Literature II <i>or</i>
		E231 <i>or</i>	American Literature I <i>or</i>
		E232	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>	Essentials of Biology <i>or</i>
		GS150	Essentials of Geology
	1	LS150L <i>or</i>	Essentials of Biology Lab <i>or</i>
		GS150L	Essentials of Geology Lab
	3	<del>MA240</del>	<del>Critical Thinking &amp; Quantitative Analysis</del>
	3	MU190 <i>or</i>	Essentials of Music & Art <i>or</i>
		ART338	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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**Academic Tracking Sheet (Effective Fall 2019)**

<b>Computer &amp; Information Sciences Major Requirements: Core + One Emphasis (53 Units)</b>			
<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>Computer Science emphasis (CIS/CS) students must complete these courses in addition to the CIS Core.</i>			
<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.*