



# THE MASTER'S UNIVERSITY

## DEGREE CHECKLIST

NAME: \_\_\_\_\_

EMPHASIS: \_\_\_\_\_

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

### Department of Computer & Information Sciences B.S. in Computer & Information Sciences

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.

#### CIS CORE COURSES

Units	Term	
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
35		<i>Total units required for core</i>

#### BIBLICAL STUDIES

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 } or IBEX300 The Land & the Bible
3		B202 New Testament Survey II
3		BTH 321 Christian Theology I
3		BTH 322 Christian Theology II
21		<i>Total units required</i>

#### GENERAL EDUCATION

Units	Term	
3		C100 Spoken Communication
3		E110 English Composition
3		Literature Survey (choose one - see below *)
3		Literature Elective (choose one - see below * or **)
3		ECN200 Essentials of Economics & Society
3		H211 Essentials of World History I } or pass World History
3		H212 Essentials of World History II } Competency Exam & 3 units
3		H230 Essentials of U.S. History } of Upper Division History
3		LS150 Essentials of Biology <i>or</i>
3		GS150 Essentials of Geology
1		LS150L Essentials of Biology Lab <i>or</i>
3		GS150L Essentials of Geology Lab
3	<i>waived for CIS majors</i>	MA240 Critical Thinking & Quantitative Analysis
3		MU190 Essentials of Music & Art <i>or</i>
3		ART338 Art History of the Western World
3		P311 Essentials of Philosophy
3		POL220 U.S. Government <i>waived for non-U.S.-citizen non-U.S.-residents</i>
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- \* E211 English Literature I
- E212 English Literature II
- E221 World Literature I
- E222 World Literature II
- E231 American Literature I
- E232 American Literature II

- \*\* E120 Introduction to Literature
- E313 Age of Romanticism
- E314 Victoria Age
- E334 The Short Story
- E335 The English Story
- E374 Studies in Jane Austen
- E404 Studies in John Calvin
- E405 Shakespeare
- E406 Milton
- E415 Contemporary Literature
- E416 Modern British Writers
- E425 20th Century American Literature
- E453 Psychoanalytic Criticism

#### TMU Graduation Requirements

- Complete a minimum of 122 semester units of credit
- Complete a minimum of 40 semester units in upper division courses
- Satisfy all General Education requirements
- Complete the required curriculum for the chosen major field(s) of study
- Maintain a minimum GPA of 2.00 (cumulative) in all TMU courses
- Complete a minimum of 32 semester units at TMU, not including Directed Studies coursework.
- Complete at least 12 of the final 24 semester units at TMU

Computer & Information Sciences Major Requirements: Core + One Emphasis (53 Units)

## EMPHASIS COURSES

### COMPUTER SCIENCE EMPHASIS COURSES

Units Term

3		CIS331 Web Application Development
3		CIS332 Linux
3		CIS351 Computer Security I
3		MA121 Calculus I

TWO OF THE FOLLOWING:

6		MA122 Calculus II
		MA231 Linear Algebra
		MA262 Elementary Statistics
		CIS Upper Division Electives
		General Upper Division Electives* <small>* if approved by CIS chair for incorporation into Senior Seminar Capstone Project</small>
18		<i>Total units required for emphasis</i>

### INFORMATION SYSTEMS EMPHASIS COURSES

Units Term

3		CIS341 Cloud Administration
3		CIS342 Project Management & Enterprise Software
3		ACC210 Accounting Fundamentals I
3		MGT310 Management Theory

TWO OF THE FOLLOWING:

6		MA262 Elementary Statistics
		CIS Upper Division Electives
		General Upper Division Electives* <small>* if approved by CIS chair for incorporation into Senior Seminar Capstone Project</small>
18		<i>Total units required for emphasis</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.*