

Student Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Advisor Name: \_\_\_\_\_

Anticipated Graduation Date: \_\_\_\_\_

## MATHEMATICS WITH COMPUTING MAJOR CHECKLIST (122 s.h.) 2019 – 20 Academic Calendar

THIS PROGRAM CHECKLIST IS INTENDED TO ASSIST STUDENTS AND ADVISORS IN ENSURING THAT ALL UNIVERSITY AND PROGRAM REQUIREMENTS ARE MET. IT IS THE RESPONSIBILITY OF THE **STUDENT** TO ENSURE THAT ALL REQUIREMENTS FOR THE DEGREE HAVE BEEN MET.

### 1. Inquiry: Ways of Knowing - Core Requirements (40 s.h.)\*

\* University Core Requirements are modified for students who transfer in with 57 s.h. or more of credit. See Academic Calendar for details (twu.ca/calendar)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	<b>FOUNDATIONAL INQUIRIES (25 sem. hrs.)</b>			<input type="checkbox"/>	Academic Writing Requirement <sup>2</sup>		
	<i>Academic Research &amp; Writing</i>				<b>WAYS OF KNOWING (15 sem. hrs.)</b>		
<input type="checkbox"/>	ENGL ____	3	Choose 2 courses (6 sem. hrs.) from ENGL 101, 102, 103, 104		In addition to the courses on the left, students must take an additional 15 sem. hrs., selecting 3 sem. hrs. from each of the following five categories. <i>*At least 9 sem. hrs. must be from outside of the student's major.</i>		
<input type="checkbox"/>	ENGL ____	3					
	<i>Foundations</i>				<i>Aesthetic &amp; Performance Inquiry</i>		
<input type="checkbox"/>	FNDN 101	1	Compulsory during the first semester of the first year. <sup>1</sup>	<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Aesthetic & Performance Inquiry category below.
<input type="checkbox"/>	FNDN 102	3	Normally taken before year 3.		<i>Cultural &amp; Linguistic Inquiry</i>		
<input type="checkbox"/>	FNDN 201	3		<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category below.
	<i>Logical &amp; Ethical Reasoning</i>				<i>Experiential &amp; Embodied Inquiry</i>		
<input type="checkbox"/>	PHIL ____	3	Choose one of PHIL 103, 105, 106, 109 or 210	<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Experiential & Embodied Inquiry category below.
	<i>Religious &amp; Spiritual Thought</i>				<i>Historical &amp; Archival Inquiry</i>		
<input type="checkbox"/>	RELS 101	3	Students who are unfamiliar with the biblical, theological and historical narrative of Christianity may take RELS 100 in place of either RELS 101 or 102.	<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Historical & Archival Inquiry category below.
<input type="checkbox"/>	RELS 102	3					
<input type="checkbox"/>	RELS ____	3	Choose one of RELS 160, 271, 272	**	**	**	Satisfied by Program Requirements.
	<i>Scientific Method &amp; Lab Research</i>				<i>Social &amp; Global Inquiry</i>		
**	**	**	Satisfied by program requirements.	<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Social & Global Inquiry category below.

<sup>1</sup> FNDN 101 is compulsory during the first semester of the first year for all new students unless they have a minimum 24 sem. hrs. initial transfer credit.

<sup>2</sup> **Academic Writing Requirement:** students must take WRTG 100 (native English speakers) or WRTG 101 (non-native English speakers) in their first semester at TWU, unless exempt at the time of admission to the University. WRTG course credit may be included toward a degree program as elective credit.

**Aesthetic & Performance Inquiry**

Choose 3 semester hours from: ART 181, 182, 250; ENGL 207, 208, 310; HKIN 342; MCOM 211, 221, 231, 369; MUSI 110; PHIL 370; SAMC 111, 370; THTR 130, 161; any Music Ensembles; any Music Lessons

**Cultural & Linguistic Inquiry**

Choose 3 semester hours from: ANTH 210, 395; EDUC 496; ENGL 334, 482; GREE 235; HEBR 245; HIST 237; POLS 237; RELS 235, 245; SOCI 395; any World Languages & Cultures course (CHIN, FREN, GERM, JAPA, RUSS, SPAN)

**Experiential & Embodied Inquiry**

Choose 3 semester hours from: ART 305, 306, 307; BIOL 316, 318, 362, 364, 409, 410; BIOT 100, 200, 300, 400, 409, 410; BUSI 395, 396, 49x; CHEM 409, 410; CMPT 409, 410; EDUC 302, 303, 402, 403; GENV 131, 316, 318, 372, 374, 409, 410; HIST 310, 315, 316; HKIN 201, 202, 235, 355, 455, 456, 457, 458, 459, 460; MATH 409, 410; MCOM 281, 391, 392, 393; NURS 213; POLS 395, 396; PSYC 322, 497, 498; SOCI 320, 411, 420; THTR 101, 102, 151, 152, 153, 154, 175, 210, 301, 302, 351, 352, 353, 354; any 1 sem. hr. HKIN Activity course; any Travel Study

**Historical & Archival Inquiry**

Choose 3 semester hours from: ART 237, 238; ECON 306; GENV 312; HIST 107, 108, 109, 111, 112, 135, 136, 230, 251, 252, 306, 312, 391; MUSI 131, 132; NURS 230; PHIL 203, 314, 421; POLS 391; PSYC 408; RELS 320, 351, 352, 475; SAMC 112; SOCI 391; THTR 331, 332

**Social & Global Inquiry**

Choose 3 semester hours from: ANTH 101, 302; BUSI 311; ECON 311, 354; EDUC 345, 365; ENGL 348; GENV 111, 212, 322, 354; LING 101, 210, 302; MCOM 111, 171, 251, 313, 315, 317, 372, 491; NURS 227; PHIL 108, 220, 310, 320; POLS 211, 310, 312, 320, 493; PSYC 399; RELS 285, 381, 384, 386, 476; SOCI 101; THTR 348

## 2. Required Math and Computing Science Courses (48 s.h.) (24 s.h. must be upper-level credit)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	MATH 123	3		<input type="checkbox"/>	CMPT ____	3	200 level
<input type="checkbox"/>	MATH 124	3		<input type="checkbox"/>	CMPT ____	3	CMPT elective 300 or above
<input type="checkbox"/>	MATH 150	3		<input type="checkbox"/>	_____	___	MATH and/or CMPT electives 300 or above (may include MATH 410) for a total of 18 s.h.
<input type="checkbox"/>	MATH 223	3		<input type="checkbox"/>	_____	___	
<input type="checkbox"/>	MATH 250	3		<input type="checkbox"/>	_____	___	
<input type="checkbox"/>	MATH ____	3	MATH elective 300 or above	<input type="checkbox"/>	_____	___	
<input type="checkbox"/>	CMPT 140	3		<input type="checkbox"/>	_____	___	
<input type="checkbox"/>	CMPT 166	3		<input type="checkbox"/>	_____	___	

CMPT courses numbered below 130 do not count towards a mathematics, applied mathematics with computing science, or computing science major, concentration, or minor.

## 3. Ancillary Requirements (6 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	PHYS 111	3		<input type="checkbox"/>	NATS ____	3	Choose from NATS 483 or 484

## 4. Elective Courses (28 s.h.)

STUDENTS ARE ENCOURAGED, BUT NOT REQUIRED, TO TAKE ELECTIVE CLASSES THAT CONTRIBUTE TO A CONCENTRATION OR A MINOR. IF YOU CHOOSE TO TAKE A CONCENTRATION OR A MINOR, PLEASE ATTACH THE APPROPRIATE CONCENTRATION/MINOR CHECKLIST AVAILABLE AT [WWW.TWU.CA/ADVISING](http://WWW.TWU.CA/ADVISING)

✓	SUBJECT	COURSE #	S.H.	NOTES	✓	SUBJECT	COURSE #	S.H.	NOTES
<input type="checkbox"/>	_____	_____	___	Recommended Electives Include: BIOL 113 CHEM 111	<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	
<input type="checkbox"/>	_____	_____	___		<input type="checkbox"/>	_____	_____	___	

➤ **NOTE:** A total of 122 s.h. of credit, including a minimum of 42 s.h. (24 s.h. in the major) of upper-level credit is required for graduation. A minimum overall (cumulative) GPA of 2.00 is required for graduation.

**NOTE:** In order to be eligible for graduation you must complete an Application for Graduation via the Student Portal and submit a completed checklist to the Office of the Registrar by April 30 of the year prior to your completion (there is no fee to apply for graduation). Once your complete application has been received, a degree audit will be completed for you. This audit will confirm which courses are still outstanding in order for you to complete your degree.