

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

Year entered TWU: \_\_\_\_\_

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

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

# APPLIED MATHEMATICS WITH COMPUTING MAJOR CHECKLIST

THIS PROGRAM CHECKLIST IS INTENDED TO ASSIST STUDENTS AND ADVISORS IN ENSURING THAT ALL UNIVERSITY AND PROGRAM REQUIREMENTS ARE MET. THIS TOOL IS INTENDED FOR USE IN CONSULTATION WITH THE CURRENT ACADEMIC CALENDAR. IT IS THE RESPONSIBILITY OF THE STUDENT TO ENSURE THAT ALL REQUIREMENTS FOR THE GRANTING OF A DEGREE HAVE BEEN MET.

## 1. University Core Requirements (43 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.

† Students may "double-count" a cross-listed core requirements course once. See <http://www.twu.ca/advising/corerequirements/> for more details.

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<b>ENGLISH (6)</b> <u>Compulsory</u> during first year				<b>NATURAL SCIENCE (6)</b>			
<input type="checkbox"/>	ENGL 103	3	A modern language literature course may replace <i>one</i> of ENGL 103 or 104. <sup>1</sup>	<input type="checkbox"/>	PHYS 111	3	Lab Science
<input type="checkbox"/>	ENGL 104	3					***
<input type="checkbox"/>	E. L. C. E.	*	May be written at the beginning of the Fall or Spring semester of second year. <sup>2</sup>	<b>PHILOSOPHY (3)</b>			
<b>FINE ARTS (3)</b>				<input type="checkbox"/>	PHIL ____	3	
<input type="checkbox"/>	_____	3	This may be chosen from Art, Drama, Fine Arts, or Music. <sup>3</sup>	<b>RELIGIOUS STUDIES (12)</b>			
<b>HISTORY (3)</b>				<input type="checkbox"/>	RELS 101	3	Students may challenge the RELS 101 and/or 102 courses by writing an exam provided by the chair of the Religious Studies department. <sup>6</sup>
<input type="checkbox"/>	HIST ____	3		<input type="checkbox"/>	RELS 102	3	
<b>HUMAN KINETICS (4)</b>				<input type="checkbox"/>	RELS ____	3	Biblical-content course (middle digit 0-5)
<input type="checkbox"/>	HKIN 190	2		<input type="checkbox"/>	_____	3	Christianity and Culture or Inter-Cultural Religious Studies Course <sup>7</sup>
<input type="checkbox"/>	HKIN ____	1	Activity course	<b>SOCIETY &amp; CULTURE (3)</b>			
<input type="checkbox"/>	HKIN ____	1	Activity course	<input type="checkbox"/>	_____	3	See footnote 8.
<b>INTERDISCIPLINARY STUDIES (5)</b>				<b>UNIVERSITY ORIENTATION (1)</b> <u>Compulsory</u> during first year.			
<input type="checkbox"/>	IDIS 102	1	Spring semester of first year. <sup>4</sup>	<input type="checkbox"/>	UNIV 101	1	Fall or Spring semester of first year. <sup>9</sup>
<input type="checkbox"/>	MATH/CMPT 480	3	See footnote 5				
<input type="checkbox"/>	NATS 490						

<sup>1</sup> Students for whom English is a foreign language may take ENGL 101 for either ENGL 103 or ENGL 104.

<sup>2</sup> Students may be exempted from the English Language Competency Exam if they receive a minimum C+ grade in both of their TWU English Core Requirements. The ELCE must be successfully completed before entering fourth year.

<sup>3</sup> May include three 1-s.h. large drama and music ensembles, but not small ensembles or music lessons.

<sup>4</sup> IDIS 102 is compulsory in first year for all new students unless they have minimum 42 s.h. initial transfer credit.

<sup>5</sup> MATH/CMPT 480 and NATS 490 is required as an IDIS 400 alternative for students majoring in Applied Mathematics.

<sup>6</sup> A passing grade allows the student to replace RELS 101 and/or 102 with an alternative biblical-content course(s).

<sup>7</sup> RELS course with a middle digit 6-9 or PHIL 210 or PHIL 310. If PHIL 210/310 is chosen, this does NOT also fill the PHIL course requirement.

<sup>8</sup> Students may choose from Anthropology, Communications, Economics, Geography (excl. 101/102/320), Political Studies, Psychology, or Sociology.

<sup>9</sup> UNIV 101 is compulsory during the fall or spring semester of the first year for all new students unless they have minimum 27 s.h. initial transfer credit.

## 2. Required Math and Computing Science Courses (41 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	MATH 123	3		<input type="checkbox"/>	CMPT ____	3	CMPT elective 300 or above
<input type="checkbox"/>	MATH 124	3		<input type="checkbox"/>	_____	3	MATH and/or CMPT electives 300 or above (May include MATH 410)
<input type="checkbox"/>	MATH 223	3		<input type="checkbox"/>	_____	3	
<input type="checkbox"/>	MATH 250	3		<input type="checkbox"/>	_____	3	
<input type="checkbox"/>	MATH 321	3		<input type="checkbox"/>	_____	3	
<input type="checkbox"/>	MATH 330	3		<input type="checkbox"/>	_____	3	
<input type="checkbox"/>	CMPT 14_	2-5					
<input type="checkbox"/>	CMPT ____	3	200 level				

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

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	PHYS 112	3					

### 4. Elective Courses (35 s.h.)

STUDENTS ARE ENCOURAGED, BUT NOT REQUIRED, TO TAKE ELECTIVE CLASSES THAT CONTRIBUTE TO A CONCENTRATION OR A MINOR. A CONCENTRATION REQUIRES 30 S.H. OF CREDIT FROM ANOTHER DEPARTMENT, AND A MINOR REQUIRES 24 S.H. THE NUMBER OF UPPER-LEVEL CREDITS REQUIRED VARIES BY DEPARTMENT. CONSULT A CURRENT COPY OF THE ACADEMIC CALENDAR FOR DETAILS. \*\* IF YOU CHOOSE TO TAKE A CONCENTRATION OR A MINOR, PLEASE DESIGNATE BELOW AND REFER TO THE CURRENT ACADEMIC CALENDAR FOR REQUIREMENTS.

#### Concentration / Minor/ Electives

CONC: \_\_\_\_\_ MINOR: \_\_\_\_\_

✓	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"/>	_____	_____	_____	

➤ **NOTE:** A total of 122 s.h. of credit, including a minimum of 42 s.h. 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 fill in an Application for Graduation Form and return it to Enrolment Services by April 30 of the year prior to your completion (there is no fee to apply for graduation). When you have handed in your application for graduation, Enrolment Services will complete a graduation audit for you. This audit will confirm which courses are still outstanding in order for you to complete your degree.