Student Name: _____	ID # _____
Advisor Name: _____	Anticipated Graduation Date: _____

MATHEMATICS: DATA SCIENCE STREAM CHECKLIST (122 s.h.)
2025-26 Academic Calendar

1. Inquiry: Ways of Knowing — Core Requirements (43 s.h.*)
University Core Requirements are modified for students who transfer in with 57 s.h. or more of initial transfer credit. See Academic Calendar for details.

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
FOUNDATIONAL INQUIRIES (28 sem. hrs.)					Academic Writing Requirement [1]		
Academic Research & Writing				**WAYS OF KNOWING (15 sem. hrs.)**			
	ENGL _____	3	Choose two of ENGL 101, 102, 103, 104.	In addition to the courses on the left, students must take an additional 15 sem. hrs. from each of the following categories, *9 s.h. of which must be from outside of the student's major.*			
	ENGL _____	3					
Foundations				*Aesthetic & Performance Inquiry*			
	FNDN 101	1	Compulsory during the first semester of the first year for all new students unless they have a minimum 24 sem. hrs. initial transfer credit.			3	Choose 3 sem. hrs. from the Aesthetic & Performance Inquiry category on page two.
	FNDN 102	3	Normally taken before year three.	*Cultural & Linguistic Inquiry*			
	FNDN 201	3				3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category on page two.
Logical & Ethical Reasoning				*Experiential & Embodied Inquiry*			
	PHIL _____	3	Choose one of PHIL 100, 103, 105, 106, 109, or 210.			3	Choose 3 sem. hrs. from the Experiential & Embodied Inquiry category on page two.
Religious & Spiritual Thought				*Historical & Archival Inquiry*			
	RELS _____	3	Choose RELS 110 or 160. Recommended in 1st semester of the 1st year.			3	Choose 3 sem. hrs. from the Historical & Archival Inquiry category on page two.
	RELS 111	3		*Quantitative & Computational Inquiry*			
	RELS 112	3			**	**	Satisfied by MATH 123.
Scientific Method & Lab Research				*Social & Global Inquiry*			
		3	Choose one of BIOL 103, 104, 113/198, 114/199, 216, 241, 262; CHEM 101, 103/198, 111/198; GENV 109, 121, 262; GEOL 109; PHYS 111.			3	Choose 3 sem. hrs. from the Social & Global Inquiry category on page two.

[1]**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.

<u>NOTES</u>:
- 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 to complete this degree. Students must have a minimum overall (cumulative) GPA of 2.0 to graduate.
- You must complete an Application for Graduation via the Student Portal and submit a copy of your filled in program checklist(s) (i.e. this document) to the Office of the Registrar by April 30 of the year prior to your completion. For more information on the graduation process, please visit twu.ca/graduation.

This program is offered under TWU's exempt status with the Degree Quality Assessment Board.

THIS CHECKLIST IS INTENDED TO ASSIST STUDENTS AND ADVISORS IN ENSURING THAT ALL REQUIREMENTS ARE MET. IT IS THE RESPONSIBILITY OF THE **STUDENT** TO MEET ALL REQUIREMENTS.

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Ways of Knowing: Categories

Category	Courses
Aesthetic & Performance Inquiry	ART 181, 182, 230, 250, 280; 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 (MUSA) Private Lessons.
Cultural & Linguistic Inquiry	ANTH 210, 395; EDUC 496; ENGL 334, 340, 482; GREE 235; HEBR 245; HIST 237; IDIS 201; POLS 237; RELS 235, 245; SOCI 395; any World Languages & Cultures course (CHIN, FREN, JAPA, RUSS, SPAN).
Experiential & Embodied Inquiry	ART 305, 306, 307; BIOL 316, 318, 362, 364, 409, 410; BIOT 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, 373, 374, 375, 409, 410; HIST 310, 315, 316; HKIN 201, 202, 216, 235, 266, 336, 355, 455, 456, 457, 458, 459, 460; LING 398, 399; 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; any CCCU Global Ed course; any Au Sable course.
Historical & Archival Inquiry	ART 237, 238; ECON 306; GENV 312; HIST 107, 108, 135, 306, 339, 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	ANTH 101, 302; BUSI 311; ECON 311, 354; EDUC 345, 365; ENGL 348; GENV 111, 212, 322, 354; HKIN 325; LING 101, 210, 302; MCOM 111, 171, 251, 313, 315, 317, 372, 491; NURS 227; PHIL 208, 220, 310, 320; POLS 101, 211, 310, 312, 320, 493; PSYC 399; RELS 271, 272, 285, 381, 384, 386, 476; SOCI 101; THTR 348.

2. Mathematics Requirements (27 s.h.)

✔	COURSE	S.H.	NOTES	✔	COURSE	S.H.	NOTES
	MATH 123	3			MATH _____	3	
	MATH 124	3			MATH _____	3	
	MATH 150	3			MATH _____	3	12 s.h. of MATH electives 300-level or above.
	MATH 223	3			MATH _____	3	
	MATH 250	3					

3. Data Science Requirements (18 s.h.)

✔	COURSE	S.H.	NOTES	✔	COURSE	S.H.	NOTES
	CMPT 339	3			MATH 381	3	
	CMPT 382	3			STAT 203	3	
	MATH 333	3			STAT 310	3	

4. Ancillary Requirements (12 s.h.)

✔	COURSE	S.H.	NOTES	✔	COURSE	S.H.	NOTES
	CMPT 140	3			CMPT 231	3	
	CMPT 166	3			NATS 484	3	

5. Elective Courses (22 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 twu.ca/advising.

✔	COURSE	S.H.	NOTES	✔	COURSE	S.H.	NOTES

YEAR 1

✓	s.h.	Fall
	1	FNDN 101
	3	RELS 110 or 160
	3	ENGL[1]
	3	MATH 123
	3	MATH 150
	3	CMPT 140
Semester Total: 16		

YEAR 2

✓	s.h.	Fall
	3	FNDN 201
	3	PHIL[3]
	3	MATH 223
	3	MATH 250
	3	CMPT 231
Semester Total: 15		

YEAR 3

✓	s.h.	Fall
	3	RELS 112
	3	MATH 381
	3	NATS 484
	3	Elective
	3	Elective
Semester Total: 15		

YEAR 4

✓	s.h.	Fall
	3	Core[2]
	3	Core[2]
	3	Core[2]
	3	STAT 310
	3	CMPT 339
Semester Total: 15		

YEAR 1

✓	s.h.	Spring
	3	FNDN 102
	3	ENGL[1]
	3	MATH 124
	3	STAT 203
	3	CMPT 166
Semester Total: 15		

YEAR 2

✓	s.h.	Spring
	3	RELS 111
	3	Core[2]
	3	MATH 333
	3	MATH[4]
	3	Elective
Semester Total: 15		

YEAR 3

✓	s.h.	Spring
	3	Core[2]
	3	MATH[4]
	3	MATH[4]
	3	Elective
	3	Elective
Semester Total: 15		

YEAR 4

✓	s.h.	Spring
	3	Core[2]
	3	MATH[4]
	3	CMPT 382
	3	Elective
	3	Elective
	1	Elective
Semester Total: 16		

COURSE LEGEND

Core Courses

1. Choose from: ENGL 101, 102, 103, 104

2. Core electives should be chosen as follows:
   ONE Scientific Method & Lab Research
   ONE Cultural & Linguistic Inquiry
   ONE Aesthetic & Performance Inquiry
   ONE Experiential & Embodied Inquiry
   ONE Historical & Archival Inquiry
   ONE Social & Global Inquiry

3. Choose from: PHIL 100, 103, 105, 106, 109, or 210.

Major Courses

4. Choose an upper-level MATH course.

Major + Core Courses

Ancillary Courses

Ancillary + Core Courses

Electives

Summer Sessions are encouraged to reduce semester load and/or repeat courses.

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