ID#:

Advisor Name:

Anticipated Graduation Date:

CHEMISTRY MAJOR - GRADUATE SCHOOL PREP PROGRAM CHECKLIST (122 s.h.) 2023-24 Academic Calendar

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

1. Inquiry: Ways of Knowing - Core Requirements (37 s.h.*)

*Uni\	ersity Core Require	ements a	re modified for students who transfer in with 57 s.h.	. or me	ore of initial transfe	r credit. Se	ee Academic Calendar for details (twu.ca/calendar).					
√	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES					
FO	UNDATIONA		UIRIES (25 sem. hrs.)		Academic Writing Requirement ²							
Aca	ademic Resea	rch & V	Vriting	WAYS OF KNOWING (12 sem. hrs.)								
	ENGL	3	Choose 2 courses (6 sem. hrs.) from ENGL				e left, students must take an additional 18 sem.					
	ENGL	3	101, 102, 103, 104.				e each of the following six categories. *At least 9 of the student's major.					
Fοι	Indations			Aes	sthetic & Perfo	ormanc	e Inquiry					
	FNDN 101	1	Compulsory during the first semester of the first year. ¹			3	Choose 3 sem. hrs. from the Aesthetic & Performance Inquiry category below.					
	FNDN 102	3	Normally taken before year 3.	Cultural & Linguistic Inquiry								
	FNDN 201	3				3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category below.					
Log	ical & Ethical	Reaso	ning	Experiential & Embodied Inquiry								
	PHIL	3	Choose one of PHIL 100, 103, 105, 106, 109, or 210.	**	**	**	Satisfied by Program Requirements.					
Rel	igious & Spiri	tual Th	ought	Historical & Archival Inquiry								
	RELS 110	3	Compulsory during the first semester of the first year.			3	Choose 3 sem. hrs. from the Historical & Archival Inquiry category below.					
	RELS 111	3		Quantitative & Computational Inquiry								
	RELS 112	3		**	**	**	Satisfied by Program Requirements.					
Sci	entific Method	l & Lab	Research	Social & Global Inquiry								
**	**	Satisfied by Program Requirements.			3	Choose 3 sem. hrs. from the Social & Global Inquiry category below.						

¹FNDN 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. ²Academic 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, 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).

Historical & Archival Inquiry

Choose 3 semester hours from: 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

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 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. Required Chemistry Courses (47 s.h.)

\checkmark	COURSE	S.H.	NOTES	√	COURSE	S.H.	NOTES
	CHEM 111*	3	Or CHEM 103/112 or 103/104.		CHEM 357	3	Lab also required.
	CHEM 112*	3	OF CHEM 103/112 OF 103/104.		CHEM 358	3	Lab also required.
	CHEM 221	3	Lab also required.		CHEM 384	3	Lab also required.
	CHEM 222	3	Lab also required.		CHEM 409/410	3	
	CHEM 230	3			CHEM 431	3	Lab also required.
	CHEM 240	3	Lab also required.		CHEM	3	Choose from CHEM 322, 342, 370, 432,
	CHEM 321	3			CHEM	3	461, 469.
	CHEM 341	3	Lab also required.				

*Includes a 1 semester hour lab as a co-requisite. CHEM 198 is the co-requisite for 103 & 111, CHEM 199 the co-requisite for 104 & 112.

3. Ancillary Requirements (24 or 25 s.h.)

\checkmark	COURSE	S.H.	NOTES	~	COURSE	S.H.	NOTES
	MATH 123	3			NATS 482	3	
	MATH 124	3			PHYS 111	3	
	MATH 223	3			PHYS 112	3	
		3	Choose from MATH 250, PHYS 220, or a 300- or 400-level MATH course.		PHYS 220 or 230	3	PHYS 220 may only be taken if MATH 250 or a 300/400 level MATH course is also taken.

4. Elective Courses (13-14 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 <u>twu.ca/advising</u>.

\checkmark	SUBJECT	COURSE#	S.H.	NOTES	\checkmark	SUBJECT	COURSE#	S.H.	NOTES

NOTE: CMPT 140 suggested.

- 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.

B.Sc. Degree Chemistry - Grad Prep 4-Year Plan

2023-2027

	YEAR 1			YEAR 2				YEAR 3				N
s.h.	Fall	\checkmark	s.h.	Fall		✓	s.h.	Fall		✓	s.h.	
1	FNDN 101		3	Core ²	-		3	Core ²			3	
3	RELS 110		3	PHIL ³	_		3	CHEM 322 ¹			3	Cł
3	ENGL 103		3	CHEM 221 ¹	-		3	CHEM 341			3	С
4	CHEM 111 ¹		3	PHYS 111 ¹	-		3	CHEM 432			3	Cł
3	MATH 123		3	MATH 223	-		3	MATH 250			1	С
					-						3	R
								Semester				
Semeste	er Total: 14		Semeste	er Total: 15		Se	emeste	er Total: 15		Se	emeste	er To
Semeste	er Total: 14 YEAR 1		Semeste	er Total: 15 YEAR 2		S	emeste	er Total: 15 YEAR 3		Se	emeste	
Semeste					-	Se ✓	emeste s.h.			Se √	emeste s.h.	
	YEAR 1			YEAR 2				YEAR 3				
s.h.	YEAR 1 Spring		s.h.	YEAR 2 Spring	-		s.h.	YEAR 3 Spring	_		s.h.	R
 s.h. 3 	YEAR 1 Spring FNDN 102		s.h. 3	YEAR 2 Spring FNDN 201	-		s.h. 3	YEAR 3 Spring Core ²	_		s.h. 3	F
 s.h. 3 3 	YEAR 1 Spring FNDN 102 RELS 111		s.h. 3 3	YEAR 2 Spring FNDN 201 CHEM 222 ¹	-		s.h. 3 3	YEAR 3 Spring Core ² CHEM 321			s.h. 3 2	F
 s.h. 3 3 3 	YEAR 1 Spring FNDN 102 RELS 111 ENGL 104		s.h. 3 3 3	YEAR 2 Spring FNDN 201 CHEM 222 ¹ CHEM 230	-		s.h. 3 3 3	YEAR 3 Spring Core ² CHEM 321 CHEM 370 ¹			s.h. 3 2 3	F C C
 s.h. 3 3 3 4 	YEAR 1 Spring FNDN 102 RELS 111 ENGL 104 CHEM 112 ¹		s.h. 3 3 3 3 3	YEAR 2 Spring FNDN 201 CHEM 222 ¹ CHEM 230 CHEM 461	-		s.h. 3 3 3 3	YEAR 3 Spring Core ² CHEM 321 CHEM 370 ¹ CHEM 431 ¹ PHYS			s.h. 3 2 3 3	er Tc R Cl Cl

	COURSE LEGEND
	Core Courses
	2. Core electives should be chosen as follows: ONE Aesthetic and Performance Inquiry ONE Cultural & Linguistic Inquiry ONE Historical & Archival Inquiry ONE Social & Global Inquiry
	3. Choose from: PHIL 100, 103, 105, 106, 109, or 210
	Major Courses
	1. Includes co-requisite lab
	Major + Core Courses
	Ancillary Courses
/////.	Ancillary + Core Courses
	Electives
	Summer Sessions are encouraged to reduce semester load and/or repeat courses.

This is an example of what a 4-year degree plan might look like. It is not the official program checklist. In the case of any discrepancy between this program plan and the checklist, the checklist shall prevail. It is the student's responsibility to ensure they complete all program requirements as laid out in the approved checklist.

B.Sc. Degree Chemistry - Grad Prep 5 Year Plan

2023-2028

		YEAR 1			YEAR 2			YEAR 3			YEAR 4			YEAR 5	COURSE LEGEND
\checkmark	s.h.	Fall	\checkmark	s.h.	Fall	\checkmark	s.h.	Fall	\checkmark	s.h.	Fall	✓	s.h.	Fall	
	1	FNDN 101		3	PHIL ³		3	RELS		3	Core ²		3	Core ²	Core Courses
	3	RELS 110		3	CHEM 221 ¹		3	111 or 112 CHEM 322 ¹		3	CHEM 240 ¹		3	CHEM 384 ¹	2. Core electives should be chosen as follows: ONE Aesthetic and Performance Inquiry ONE Cultural & Linguistic Inquiry
	3	ENGL 103		3	PHYS 1111		3	CHEM 341		3	CHEM 3571		1	CHEM 409	ONE Historical & Archival Inquiry ONE Social & Global Inquiry
	4	СНЕМ 1111		3	MATH 223		3	CHEM 432		3	NATS 482		3	MATH 250	3. Choose from: PHIL 100, 103, 105, 106, 109, or 210
	3	MATH 123											3	Elective	Major Courses
		///////////////////////////////////////													1. Includes co-requisite lab
															Major + Core Courses
Se	meste	r Total: 14	Semester Total: 12			2 Semester Total: 12			Semester Total: 12 Semester Total: 13				emeste	er Total: 13	
															Ancillary Courses
		YEAR 1			YEAR 2			YEAR 3			YEAR 4			YEAR 5	
✓	s.h.	Spring	\checkmark	s.h.	Spring	\checkmark	s.h.	Spring	\checkmark	s.h.	Spring	\checkmark	s.h.	Fall	Ancillary + Core Courses
	3	FNDN 102		3	FNDN 201		3	Core ²		3	RELS 111 or 112		3	Core ²	Electives
	3	ENGL 104		3	CHEM 222 ¹		3	CHEM 321		3	CHEM 342		3	CHEM 3701	Summer Sessions are encouraged to reduce
	4	CHEM 1121		3	CHEM 230		3	CHEM 431 ¹		3	CHEM 3581		3	CHEM 386 ¹	semester load and/or repeat courses.
	3	MATH 124		3	CHEM 461		3	PHYS 220 or 230		3	Elective		3	CHEM 411	
				3	PHYS 1121										
Se	emeste	r Total: 13	s	emeste	er Total: 15	s	emeste	er Total: 12	S	emeste	er Total: 12	s	emeste	er Total: 12	

This is an example of what a 5-year degree plan might look like. It is not the official program checklist. In the case of any discrepancy between this program plan and the checklist, the checklist shall prevail. It is the student's responsibility to ensure they complete all program requirements as laid out in the approved checklist.

