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

CHEMISTRY MAJOR – LIFE SCIENCES EMPHASIS 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 (40 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 (twu.ca/calendar).

COURSE S.H. NOTES

COURSE S.H. NOTES

FOUNDATIONAL INQUIRIES (25 sem. hrs.)

Academic Writing Requirement 2

FO	UNDATIONA	L INQ	UIRIES (25 sem. hrs.)	Academic Writing Requirement ²						
Aca	ademic Resea	rch & V	Vriting	WAYS OF KNOWING (15 sem. hrs.)						
	ENGL	3	Choose 2 courses (6 sem. hrs.) from ENGL				ne left, students must take an additional 18 sem.			
	ENGL	3	101, 102, 103, 104.				e each of the following six categories. *At least 9 e of the student's major.			
Fou	ındations			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.	Cul	ltural & Lingui	stic Inq	uiry			
	FNDN 201	3				3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category below.			
Log	gical & Ethical	Reaso	ning	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 below. ³			
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		Qua	antitative & Co	omputa	tional Inquiry			
	RELS 112	3		**	**	**	Satisfied by Program Requirements.			
Sci	entific Method	& Lab	Research	Social & Global Inquiry						
**	**	**	Catiofic d by Drawara Danyina ananta	П		2	Choose 3 sem. hrs. from the Social & Global			

Satisfied by Program Requirements.

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).

Experiential & Embodied Inquiry

Choose 3 semester hours from: 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.

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.

Inquiry category below.

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.

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.

³CHEM 409/410 recommended.

2. Required Chemistry Courses (44 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	CHEM 111*	3			CHEM 384	3	Lab also required.
	CHEM 112*	3			CHEM 386	3	
	CHEM 221	3	Lab also required.		CHEM	3	
	CHEM 222	3	Lab also required.		CHEM	3	
	CHEM 230	3			CHEM	3	Choose from CHEM 321, 322, 341, 342, 370,
	CHEM 240	3	Lab also required.		CHEM	3	372, 409/410**, 431, 432, 461, 469.
	CHEM 357	3	Lab also required. Or 358 with instructor's permission.		CHEM	3	

3. Ancillary Requirements (26 s.h.)

✓	COURSE	S.H.	NOTES	\checkmark	COURSE	S.H.	NOTES
	BIOL 113*	3			MATH 124	3	
	BIOL 114*	3			NATS 482	3	
	BIOL 223	3			PHYS 111	3	
	MATH 123	3			PHYS 112	3	

^{*}Includes a 1 semester hour lab as a co-requisite. BIOL198 is the co-requisite for BIOL113; BIOL199 is the co-requisite for BIOL114

4. Elective Courses (12 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 https://www.ca/advising.

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

- 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.

^{*}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. Goal is 10 Lab (L) courses. Seven (7) required chemistry courses have labs, choose an additional 3 from: 322, 341, 358, 370, 431, 409/410**
**CHEM 409/410 would meet Experiential and Embodied Inquiry requirements.

	YEAR 1			YEAR 2			YEAR 3			YEAR 4
✓ s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall
1	FNDN 101		3	Core ²		3	PHIL ³		3	Core ²
3	RELS 110		3	CHEM 221 ¹		3	Core ²		3	Core ²
3	ENGL 103		3	PHYS 111 ¹		3	CHEM 384 ¹		3	CHEM 240 ¹
4	CHEM 103 or 111 ¹		3	MATH 123		3	CHEM 432		3	CHEM 357 ¹
4	BIOL 113 ¹		3	Elective ⁴		3	BIOL 223 ¹		3	NATS 482
Semes	er Total: 15	5	Semeste	er Total: 15	S	iemeste	er Total: 15	S	emeste	er Total: 15
	YEAR 1			YEAR 2			YEAR 3			YEAR 4
s.h.	Spring	✓	s.h.	Spring	✓	s.h.	Spring	✓	s.h.	Spring
3	FNDN 102		3	FNDN 201		3	RELS 112		3	Core ²
3	RELS 111		3	CHEM 222 ¹		3	CHEM 321		3	CHEM 342
3	ENGL 104		3	CHEM 230		3	CHEM 386		3	CHEM 461
	CHEM 104 or 112 ¹		3	PHYS 112 ¹		3	CHEM 431 ¹		3	Elective ⁴
4										
4	BIOL 114 ¹		3	MATH 124		3	Elective ⁴		3	Elective4

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.

		YEAR 1			YEAR 2			YEAR 3			YEAR 4			YEAR 5	COURSE LEGEND
✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	Core Courses
	1	FNDN 101		3	Core ²		3	PHIL ³		3	Core ²		3	CHEM 322 ¹	2. Core electives should be chosen as follows:
	3	RELS 110		3	CHEM 221 ¹		3	CHEM 384 ¹		3	Core ²		3	CHEM 432	ONE Aesthetic and Performance Inquiry ONE Cultural & Linguistic Inquiry ONE Historical & Archival Inquiry
	3	ENGL 103		3	BIOL 2231		3	PHYS 111 ¹		3	CHEM 240 ¹		3	NATS 482	ONE Social & Global Inquiry
	4	CHEM 111 ¹		3	MATH 105		3	MATH 123		3	CHEM 357 ¹		3	Elective ⁴	3. Choose from: PHIL 100, 103, 105, 106, 109, or 210.
	4	BIOL 1131													Major Courses
	-	DIOL 113													1. Includes co-requisite lab
															Major + Core Courses
S	Semester Total: 15		s	emeste	er Total: 12	Semester Total: 12 Seme					er Total: 12 Semester Total: 12			er Total: 12	
														Ancillary Courses	
		YEAR 1			YEAR 2			YEAR 3			YEAR 4			YEAR 5	
√	s.h.	Spring	✓	s.h.	Spring	✓	s.h.	Spring	✓	s.h.	Spring	✓	s.h.	Fall	Ancillary + Core Courses
	3	FNDN 102		3	FNDN 201		3	RELS 112		3	Core ²		3	Core ²	Electives
	3	RELS 111		3	CHEM 222 ¹		3	CHEM 386		3	CHEM 342		3	CHEM 321	4. Choose a 300- or 400-level elective.
	3	ENGL 104		3	CHEM 230		3	PHYS 112 ¹		3	CHEM 461		3	Elective ⁴	Summer Sessions are encouraged to reduce semester load and/or repeat courses.
	4	CHEM 112 ¹		3	Elective		3	MATH 124		3	Elective ⁴		3	Elective ⁴	semesier load and/or repeal courses.
	4	BIOL 114 ¹													
	emeste	r Total: 17	S	emeste	er Total: 12		omosts	er Total: 12	c		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.