

Student Name: \_\_\_\_\_ ID # \_\_\_\_\_

Advisor Name: \_\_\_\_\_ Anticipated Graduation Date: \_\_\_\_\_

## CHEMISTRY MAJOR: GENERAL PROGRAM CHECKLIST (122 s.h.)

### 2025-26 Academic Calendar

#### 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.*

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
FOUNDATIONAL INQUIRIES (25 sem. hrs.)				Academic Writing Requirement <sup>1</sup>			
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 below.
	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 below.
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 below.
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 below.
	RELS 111	3		Quantitative & Computational Inquiry			
	RELS 112	3			**	**	Satisfied by CHEM 112.
Scientific Method & Lab Research				Social & Global Inquiry			
	**	**	Satisfied by CHEM 111.			3	Choose 3 sem. hrs. from the Social & Global Inquiry category below.

<sup>1</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.

#### Ways of Knowing: Categories

<b>Aesthetic &amp; Performance Inquiry</b>	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.
<b>Cultural &amp; Linguistic Inquiry</b>	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).
<b>Experiential &amp; Embodied Inquiry</b>	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.
<b>Historical &amp; Archival Inquiry</b>	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.
<b>Social &amp; Global Inquiry</b>	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. Required Chemistry Courses (44 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	CHEM 111*	4	Includes a one s.h. lab (CHEM 198) as a co-requisite.		CHEM _____	3	Choose from: CHEM 321, 322, 341, 342, 358, 370, 384, 431, 432, 461, 469, 409/410 (409/410 would meet the Experiential & Embodied Inquiry Requirements).
	CHEM 112*	4	Includes a one s.h. lab (CHEM 199) as a co-requisite.		CHEM _____	3	
	CHEM 221	3			CHEM _____	3	
	CHEM 222	3			CHEM _____	3	
	CHEM 230	3			CHEM _____	3	
	CHEM 240	3			CHEM _____	3	
	CHEM 357	3			CHEM _____	3	

\*CHEM 111/112 may be substituted with either CHEM 103/112 or CHEM 103/104.

## 3. Ancillary Courses (18 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	MATH 123	3			NATS 482	3	
	MATH 124	3			PHYS 111	3	
	_____	3	Choose MATH 223 or CMPT 140.		PHYS 112	3	

## 4. Elective Courses (20 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](http://twu.ca/advising).

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES







### NOTES:

- A total of 122 s.h. of credit, including a minimum of 42 s.h. of upper-level credit (24 s.h. in the major) 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](http://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.

YEAR 1			YEAR 2			YEAR 3			YEAR 4		
✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall
	1	FNDN 101		3	RELS 111		3	Core <sup>2</sup>		3	Core <sup>2</sup>
	3	RELS 110 or 160		3	PHIL <sup>1</sup>		3	CHEM 432		3	CHEM 240 <sup>4</sup>
	3	ENGL 103		3	BIOL 223 <sup>4</sup>		3	CHEM <sup>5</sup>		3	CHEM 357 <sup>4</sup>
	4	CHEM 111 <sup>4</sup>		3	CHEM 221 <sup>4</sup>		3	CHEM <sup>5</sup>		3	NATS 482
	4	BIOL 113 <sup>4</sup>		3	PHYS 111 <sup>4</sup>		3	MATH 223 or CMPT 140		3	Elective
Semester Total: 15			Semester Total: 15			Semester Total: 15			Semester 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 <sup>2</sup>
	3	ENGL 104		3	CHEM 222 <sup>4</sup>		3	Core <sup>2</sup>		3	Core <sup>3</sup>
	4	BIOL 114 <sup>4</sup>		3	CHEM 230		3	CHEM 321		3	CHEM 358 <sup>4</sup>
	4	CHEM 112 <sup>4</sup>		3	PHYS 112 <sup>4</sup>		3	CHEM <sup>6</sup>		3	CHEM 461
	3	MATH 123		3	MATH 124		3	CHEM <sup>6</sup>		3	Elective
Semester Total: 17			Semester Total: 15			Semester Total: 15			Semester Total: 15		

COURSE LEGEND	
	<b>Core Courses</b>
1. Choose from: PHIL 100, 103, 105, 106, 109, or 210	
2. Core electives should be chosen as follows:	
ONE Aesthetic and Performance Inquiry	
ONE Cultural & Linguistic Inquiry	
ONE Experiential & Embodied Inquiry	
ONE Historical & Archival Inquiry	
ONE Social & Global Inquiry	
3. Or take CHEM 342.	
	<b>Major Courses</b>
4. Includes co-requisite lab	
5. Choose a combination of: CHEM 322 & 341; CHEM 341 & 384; or CHEM 322 & 384.	
6. Choose a combination of: CHEM 370 & 431; CHEM 321 & 370; or CHEM 431 & a Core elective.	
	<b>Major + Core Courses</b>
4. Includes co-requisite lab	
	<b>Ancillary Courses</b>
4. Includes co-requisite lab	
	<b>Ancillary + Core Courses</b>
	<b>Electives</b>
<i>Summer Sessions are encouraged to reduce semester load and/or repeat courses.</i>	

*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		
✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall
	1	FNDN 101		3	RELS 111		3	Core <sup>1</sup>		3	Core <sup>1</sup>		3	CHEM <sup>7</sup>
	3	RELS 110 or 160		3	CHEM 221 <sup>4</sup>		3	PHIL <sup>2</sup>		3	CHEM 240 <sup>4</sup>		3	CHEM 432
	3	ENGL 103		3	BIOL 223 <sup>4</sup>		3	CHEM <sup>5</sup>		3	CHEM 357 <sup>4</sup>		3	MATH 223 or CMPT 140
	4	CHEM 111 <sup>4</sup>		3	MATH 123		3	PHYS 111 <sup>4</sup>		3	NATS 482		3	Elective
	4	BIOL 113 <sup>4</sup>												
Semester Total: 15			Semester Total: 12			Semester Total: 12			Semester Total: 12			Semester Total: 12		
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
	3	FNDN 102		3	FNDN 201		3	RELS 112		3	Core <sup>1,3</sup>		3	Core <sup>1</sup>
	3	ENGL 104		3	CHEM 222 <sup>4</sup>		3	CHEM 321		3	CHEM 358 <sup>4</sup>		3	Core <sup>1</sup>
	4	CHEM 112 <sup>4</sup>		3	CHEM 230		3	CHEM <sup>6</sup>		3	CHEM 461		3	CHEM <sup>8</sup>
	4	BIOL 114 <sup>4</sup>		3	MATH 124		3	PHYS 112 <sup>4</sup>		3	Elective			
Semester Total: 14			Semester Total: 12			Semester Total: 12			Semester Total: 12			Semester Total: 9		

## COURSE LEGEND

### Core Courses

- Core electives should be chosen as follows:  
ONE Aesthetic and Performance Inquiry  
ONE Cultural & Linguistic Inquiry  
ONE Historical & Archival Inquiry  
ONE Social & Global Inquiry
- Choose from: PHIL 100, 103, 105, 106, 109, or 210.
- Or CHEM 342

### Major Courses

- Includes co-requisite lab
- Choose CHEM 322 or 384.
- Choose CHEM 370 or a Core elective.
- Choose CHEM 341 or 384.
- Choose CHEM 386 or 431.

### Major + Core Courses

- Includes co-requisite lab

### Ancillary Courses

- Includes co-requisite lab

### Ancillary + Core Courses

### Electives

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

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.