

Student Name: _____

ID#: _____

Advisor Name: _____

Anticipated Graduation Date: _____

MULTIDISCIPLINARY MAJOR IN BIOTECHNOLOGY & CHEMISTRY CHECKLIST (122 s.h.) 2019 -20 Academic Calendar

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

1. Inquiry: Ways of Knowing - Core Requirements (37 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 (twu.ca/calendar)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
FOUNDATIONAL INQUIRIES (25 sem. hrs.)				<input type="checkbox"/> Academic Writing Requirement ²			
<i>Academic Research & Writing</i>				WAYS OF KNOWING (12 sem. hrs.)			
<input type="checkbox"/>	ENGL ____	3	Choose 2 courses (6 sem. hrs.) from ENGL 101, 102, 103, 104	In addition to the courses on the left, students must take an additional 12 sem. hrs., selecting 3 sem. hrs. from each of the following four categories. <i>*At least 9 sem. hrs. must be from outside of the student's major.</i>			
<input type="checkbox"/>	ENGL ____	3					
<i>Foundations</i>				<i>Aesthetic & Performance Inquiry</i>			
<input type="checkbox"/>	FNDN 101	1	Compulsory during the first semester of the first year. ¹	<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Aesthetic & Performance Inquiry category below.
<input type="checkbox"/>	FNDN 102	3	Normally taken before year 3.	<i>Cultural & Linguistic Inquiry</i>			
<input type="checkbox"/>	FNDN 201	3		<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category below.
<i>Logical & Ethical Reasoning</i>				<i>Experiential & Embodied Inquiry</i>			
<input type="checkbox"/>	PHIL ____	3	Choose one of PHIL 103, 105, 106, 109 or 210	**	**	**	Included in Program Requirements.
<i>Religious & Spiritual Thought</i>				<i>Historical & Archival Inquiry</i>			
<input type="checkbox"/>	RELS 101	3	Students who are unfamiliar with the biblical, theological and historical narrative of Christianity may take RELS 100 in place of either RELS 101 or 102.	<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Historical & Archival Inquiry category below.
<input type="checkbox"/>	RELS 102	3					
<input type="checkbox"/>	RELS ____	3	Choose one of RELS 160, 271, 272	**	**	**	Included in Program Requirements.
<i>Scientific Method & Lab Research</i>				<i>Social & Global Inquiry</i>			
**	**	**	Included in Program Requirements.	<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Social & Global Inquiry category below.

¹ 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.

² **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.

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, 482; GREE 235; HEBR 245; HIST 237; POLS 237; RELS 235, 245; SOCI 395; any World Languages & Cultures course (CHIN, FREN, GERM, JAPA, RUSS, SPAN)

Historical & Archival Inquiry

Choose 3 semester hours from: ART 237, 238; ECON 306; GENV 312; HIST 107, 108, 109, 111, 112, 135, 136, 230, 251, 252, 306, 312, 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 108, 220, 310, 320; POLS 211, 310, 312, 320, 493; PSYC 399; RELS 285, 381, 384, 386, 476; SOCI 101; THTR 348

2. Required Biology and Biotechnology Courses (33 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	BIOL 113 [†]	3	Or(BIOL 103, 104 & 105*);+ or (BIOL 103 & 114)*	<input type="checkbox"/>	BIOL 371	3	
<input type="checkbox"/>	BIOL 114 [†]	3		<input type="checkbox"/>	BIOL 372	3	
<input type="checkbox"/>	BIOL 223	3	Take in Year 2	<input type="checkbox"/>	BIOL/BIOT 390	3	
<input type="checkbox"/>	BIOL/BIOT 290	3		<input type="checkbox"/>	BIOL/BIOT 470	3	
<input type="checkbox"/>	BIOL ____	3	Choose BIOL 333 or 334.	<input type="checkbox"/>	BIOL/BIOT 490	3	
<input type="checkbox"/>	BIOL 336	3					

[†] minimum grade of B required in BIOL 103 to progress to BIOL 114.

* minimum grade of C in first year Biology courses required to progress to BIOL 223.

3. Required Chemistry Courses (33 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	CHEM 111	3	Or CHEM 103	<input type="checkbox"/>	CHEM 322	3	
<input type="checkbox"/>	CHEM 112	3	Or CEHM 104	<input type="checkbox"/>	CHEM 357	3	
<input type="checkbox"/>	CHEM 221	3	Take in Year 2	<input type="checkbox"/>	CHEM 358	3	
<input type="checkbox"/>	CHEM 222	3	Take in Year 2	<input type="checkbox"/>	CHEM 384	3	
<input type="checkbox"/>	CHEM 230	3	Take in Year 2	<input type="checkbox"/>	CHEM 386	3	
<input type="checkbox"/>	CHEM 321	3					

4. Required Internships (3 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	BIOL/BIOT 100	1	Taken in the Spring semester of Year 1.	<input type="checkbox"/>	BIOL/BIOT 200	2	In Industry during or after Year 2

5. Required Co-Ops (must complete two)*

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

*BIOL/BIOT 300 may substitute one of the required co-ops.

6. Required Ancillary Courses (15 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	MATH 123	3		<input type="checkbox"/>	PHYS 111	3	
<input type="checkbox"/>	MATH 102	3		<input type="checkbox"/>	PHYS 112	3	
<input type="checkbox"/>	NATS 481	3					

7. Elective Courses (1 s.h.)

✓	SUBJECT	COURSE	S.H.	NOTES	✓	SUBJECT	COURSE	S.H.	NOTES
		#					#		
<input type="checkbox"/>	_____	_____	____		<input type="checkbox"/>	_____	_____	____	
<input type="checkbox"/>	_____	_____	____		<input type="checkbox"/>	_____	_____	____	

➤ NOTE: All Biotechnology courses are cross-listed as Biology courses, including Biotechnology practica.

➤ 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 2.50 is required for graduation, with a minimum 2.50 GPA in all required courses for the major.

➤ 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 30th 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.

This program is offered under the written consent of the Minister of Advanced Education effective March 9, 2006, having undergone a quality assessment process and been found to meet the criteria established by the minister. Nevertheless, prospective students are responsible for satisfying themselves that the program and the degree will be appropriate to their needs (for example, acceptable to potential employers, professional licensing bodies, or other educational institutions).