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

BIOTECHNOLOGY MAJOR CHECKLIST (122 s.h.)

2017 - 18 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)

Ul	liversity Core Rec	quiremen	ts are modified for students who transfer in with	157 S.	n. or more of cred	iit. See A	cademic Calendar for details (twu.ca/calendar)			
✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES			
FO	FOUNDATIONAL INQUIRIES (25 sem. hrs.)				Academic Writing Requirement ²					
,	Academic Research & Writing				AYS OF KNO	WING	(12 sem. hrs.)			
	ENGL	3	Choose 2 courses (6 sem. hrs.) from ENGL		In addition to the courses on the left, students must take an additional 12 sem.					
	ENGL	3	101, 102, 103, 104				n each of the following four categories. *At least 9 e of the student's major.			
F	oundations			Aesthetic & Per	formand	e Inquiry				
	FNDN 101	1	Compulsory during the first semester of the first year. ¹			Choose 3 sem. hrs. from the Aesthetic & Performance Inquiry category below.				
	FNDN 102	3	Compulsory during the first year.	Cultural & Linguistic Inquiry						
	FNDN 201	3		**	**	**	Included in Program Requirements.			
L	Logical & Ethical Reasoning			Experiential & Embodied Inquiry						
	PHIL	3	Choose one of PHIL 103, 105, 106, 109 or 210			3	Choose 3 sem. hrs. from the Experiential & Embodied Inquiry category below.			
F	Religious & Spir	ritual Th	ought	Historical & Archival Inquiry						
	RELS 101	3	Students who are unfamiliar with the biblical, theological and historical narrative	**	**	**	Included in Program Requirements.			
	RELS 102	3	of Christianity may take RELS 100 in place of either RELS 101 or 102.	(Quantitative & Computational Inquiry					
	RELS	3	Choose one of RELS 160, 271, 272	Choose 3 sem. hrs. from the Qualitative & Computational Inquiry category below.						
S	Scientific Method & Lab Research				Social & Global Inquiry					
**	**	**	Included in Program Requirements.			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.

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 240, 237, 340; POLS 240; RELS 235, 245; SOCI 395; any World Languages & Cultures course (CHIN, FREN, GERM, JAPA, RUSS, SPAN)

Experiential & Embodied Inquiry

Choose 3 semester hours from: ART 305, 306, 307; BIOL 316, 318, 362, 364, 409, 410; BIOT 100, 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, 374, 409, 410; HIST 310, 315, 316; HKIN 355, 455, 456, 457, 458, 459, 460; 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 HKIN Activity course; any Travel Study

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

Quantitative & Computational Inquiry

Choose 3 semester hours from: BUSI 176, 275; CHEM 104, 112; CMPT 140; ECON 176, 275; GENV 282, 382, 383; MATH 102, 108, 123, 150, 190; PHYS 112, POLS 305; PSYC 207; SOCI 207

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, 393; PSYC 399; RELS 285, 381, 384, 386, 476; SOCI 101; THTR 348

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.

2. Required Biology and Biotechnology Courses (45 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	BIOL 113*	3	(Or BIOL 103, 104 & 105)*		BIOL 372	3	
	BIOL 114*	3	(Or BIOL 103, 104 & 105)*		BIOL 384	3	
	BIOL 223	3	Take in Year 2		BIOL 386	3	
	BIOL/BIOT 290	3			BIOL/BIOT 390	3	
	BIOL 333	3			BIOL 423	3	
	BIOL 334	3			BIOL/BIOT 470	3	
	BIOI 336	3			BIOL/BIOT 490	3	
	BIOL 371	3					

^{*}minimum of C in first year required to progress to BIOL 223.

3. Required Internships (3 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	BIOL/BIOT 100	1	Taken in the Spring semester of Year 1		BIOL/BIOT 200	2	In Industry during or after Year 2

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

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

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

5. Ancillary Courses (30 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	CHEM 111	3	Take in Year 1. Choose from 103 or 111		MATH 123	3	
	CHEM 112	3	Take in Year 1. Choose from 104 or 112		NATS 487	2	
	CHEM 221	3	Year 2		NATS 490	1	
	CHEM 222	3	Year 2		PHYS 111	3	
	CHEM 357	3			PHYS 112	3	
	CHEM 358	3					

6. Elective Courses (4 s.h.)

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

- > 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).