Student Name:\_

ID #

Advisor Name:

Anticipated Graduation Date:

## BIOTECHNOLOGY MAJOR CHECKLIST (122 s.h.) 2024-25 Academic Calendar

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 initial transfer credit. See <u>Academic Calendar</u> for details.										
~	COURSE	S.H.	NOTES	~	COURSE	S.H.	NOTES			
FO	JNDATIONAL	INQUI	RIES (25 sem. hrs.)	Academic Writing Requirement <sup>1</sup>						
Aca	demic Researci	h & Wr	iting	WAYS OF KNOWING (12 sem. hrs.)						
	ENGL	3 3	Choose two of ENGL 101, 102, 103, 104.	In addition to the courses on the left, students must take an additional 12 sem. hrs. from each of the following categories, 9 s.h. of which must be from outside of the student's major.						
Fou	ndations			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.	Cul	Cultural & Linguistic Inquiry					
	FNDN 201	3				3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category below.			
Log	ical & Ethical R	easonir	ng	Experiential & Embodied Inquiry						
	PHIL	3	Choose one of PHIL 100, 103, 105, 106, 109, or 210.		**	**	Satisfied by BIOT 200.			
Rel	igious & Spiritu	al Thou	ght	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.					
Scie	entific Method &	& Lab R	Pesearch	Social & Global Inquiry						
	* *	**	Satisfied by BIOL 113 or 114.			3	Choose 3 sem. hrs. from the Social & Global Inquiry category below.			
<sup>3</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										
Aest	netic & Performance	Inquiry	ART 181, 182, 250; ENGL 207, 208, 310; HKIN any Music Ensembles; any Music (MUSA) Private			, 369; MI	USI 110; PHIL 370; SAMC 111, 370; THTR 130, 161;			
Cult	ıral & Linguistic Inqu	uiry	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).							
Histo	rical & Archival Inq	uiry	ART 237, 238; ECON 306; GENV 312; HIST 10 PSYC 408; RELS 320, 351, 352, 475; SAMC 112	ENV 312; HIST 107, 108, 135, 306, 339, 391; MUSI 131, 132; NURS 230; PHIL 203, 314, 421; POLS 391; 2, 475; SAMC 112; SOCI 391; THTR 331, 332.						
Soci	al & Global Inquiry		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 Biology & Biotechnology Courses (44 s.h.)													
~	COURSE	S.H.	NOTES	~	COURSE	S.H.	NOTES						
	BIOL 113*	4	Includes a one s.h. lab (BIOL 198) as a co-requisite.		BIOL 372	3							
	BIOL 114*	4	Includes a one s.h. lab (BIOL 199) as a co-requisite.		BIOL 384	3							
	BIOL 223	3			BIOL 386	3							
	BIOT 290	3			BIOL	3	Choose from BIOL 433, 474, or 475.						
	BIOL	3	Choose: BIOL 333 or 334.		BIOT 470	3							
	BIOL 336	3			BIOT 490								
	BIOL 371	3	*Minimum grade of C required to progress to BIOL 223.										
3.	3. Required Internships (3 s.h.)												
✓	COURSE	S.H.	NOTES										
	BIOL/BIOT 200	3											
4.	4. Required Co-ops (must complete two) BIOT 300/400 may substitute one of the required co-ops.												
✓	COURSE	S.H.	NOTES	1	COURSE	S.H.	NOTES						
5.	Ancillary Co	urse	s (35 s.h.)										
1	COURSE	S.H.	NOTES	1	COURSE	S.H.	NOTES						
	CHEM 111*	4	Includes a one s.h. lab (CHEM 198) as a co-requisite.		MATH 123	3							
	CHEM 112*	4	Includes a one s.h. lab (CHEM 199) as a co-requisite.		MATH/STAT 203	3							
	CHEM 221	3			NATS 481	3							
	CHEM 222	3			PHYS 111	3							
	CHEM 357	3			PHYS 112	3							
	CHEM 358	3											
6.	6. Elective Courses (0 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.												
~	COURSE	S.H.	NOTES	1	COURSE	S.H.	NOTES						
		İ		1		İ							

## 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 2.5 to graduate, including a minimum GPA of 2.5 in all required courses for the major.
- You must complete an <u>Application for Graduation</u> via the Student Portal and <u>submit a copy of your filled in program checklist(s)</u> (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 <u>twu.ca/graduation</u>.

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).

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.

## B.Sc. Degree Biotechnology - 4 Year Plan

## 2024-2028

		YEAR 1			YEAR 2			YEAR 3			YEAR 4
✓	s.h.	Fall	~	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall
	1	FNDN 101		3	FNDN 201		3	Core <sup>2</sup>		3	Core <sup>2</sup>
	3	RELS 110 or 160		3	Core <sup>2</sup>		3	BIOL 371		3	BIOL⁴
	3	ENGL <sup>1</sup>		3	BIOL 223		3	BIOL 384		3	BIOL <sup>4</sup>
	4	BIOL 113 <sup>3</sup>		3	CHEM 221		3	BIOL <sup>4</sup>		3	СНЕМ 357
	4	CHEM 111 <sup>3</sup>		3	MATH 123		3	PHYS 111		3	NATS 481
ę	Semeste	er Total: 15	S	emeste	r Total: 15	s	Semeste	er Total: 15	s	emeste	er Total: 15
		YEAR 1			YEAR 2			YEAR 3			YEAR 4
√	s.h.	Spring	$\checkmark$	s.h.	Spring	$\checkmark$	s.h.	Spring	$\checkmark$	s.h.	Spring
	3	FNDN 102		3	Core <sup>2</sup>		3	Core <sup>2</sup>		3	Core <sup>2</sup>
	3	RELS 111		3	BIOT 200		3	BIOL 372		3	BIOL <sup>4</sup>
	3	ENGL <sup>1</sup>		3	BIOL 290		3	BIOL 386		3	BIOL 470 <sup>6</sup>
	4	BIOL 114 <sup>3</sup>		3	CHEM 222		3	BIOL 423 <sup>5</sup>		3	CHEM 358
		CHEM 112 <sup>3</sup>		3	STAT 203		3	PHYS 112		3	Elective
	4	CHEM 112		3	STAT 203		3	PH15 112		3	Elective
ę	Semeste	er Total: 17	S	emeste	r Total: 15	S	Semeste	er Total: 15	S	emeste	er Total: 15

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.

