

Student Name: _____

ID#: _____

Advisor Name: _____

Anticipated Graduation Date: _____

INTERDISCIPLINARY MAJOR IN BIOTECHNOLOGY AND BUSINESS ADMINISTRATION 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 (37 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.)			<input type="checkbox"/>	Academic Writing Requirement ²		
	Academic Research & Writing				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 18 sem. hrs., selecting 3 sem. hrs. from each of the following six categories. *At least 9 sem. hrs. must be from outside of the student's major.			
<input type="checkbox"/>	ENGL _____	3					
	Foundations				Aesthetic & Performance Inquiry		
<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.		Cultural & Linguistic Inquiry		
<input type="checkbox"/>	FNDN 201	3		<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category below.
	Logical & Ethical Reasoning				Experiential & Embodied Inquiry		
<input type="checkbox"/>	PHIL _____	3	Choose one of PHIL 100, 103, 105, 106, 109, or 210.	**	**	**	Satisfied by Program Requirements.
	Religious & Spiritual Thought				Historical & Archival Inquiry		
<input type="checkbox"/>	RELS 110	3	Compulsory during the first semester of the first year.	<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Historical & Archival Inquiry category below.
<input type="checkbox"/>	RELS 111	3			Quantitative & Computational Inquiry		
<input type="checkbox"/>	RELS 112	3		**	**	**	Satisfied by Program Requirements.
	Scientific Method & Lab Research				Social & Global Inquiry		
**	**	**	Satisfied by Program Requirements.	<input type="checkbox"/>	_____	3	Choose 3 sem. hrs. from the Social & Global Inquiry category below.

¹FNDN 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, 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).

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.

2. Required Biology and Biotechnology Concentration Courses (33-35 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	BIOL 113 ^{a,c}	4	Or (BIOL 103,104 and 105) ^a Or (BIOL 103 and 114) ^b	<input type="checkbox"/>	BIOL _____	3	Choose BIOL 371 or 384. (BIOL 384 requires CHEM 221/222.)
<input type="checkbox"/>	BIOL 114 ^{a,c}	4		<input type="checkbox"/>	BIOL 372	3	
<input type="checkbox"/>	BIOL 223	3		<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 from BIOL 333 or 334.	<input type="checkbox"/>	BIOL/BIOT 490	3	
<input type="checkbox"/>	BIOL 336	3					

^a Minimum grade of C required to progress to BIOL 223.

^b Minimum grade of B in BIOL 103 required to progress to BIOL 114.

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

3. Required Business Administration Concentration Courses (27 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	BUSI 111	3		<input type="checkbox"/>	BUSI 280	3	
<input type="checkbox"/>	BUSI 121	3		<input type="checkbox"/>	BUSI 323	3	
<input type="checkbox"/>	BUSI 176	3		<input type="checkbox"/>	BUSI _____	3	Choose 2 of BUSI 311, 334, 352, 480, 486.
<input type="checkbox"/>	BUSI 222	3		<input type="checkbox"/>	BUSI _____	3	
<input type="checkbox"/>	BUSI 231	3					

4. Required Internships (3 s.h.)

✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	BIOL/BIOT 200	3	

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. Ancillary Courses (17 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	CHEM 111	4	Or CHEM 103*	<input type="checkbox"/>	MATH 123	3	
<input type="checkbox"/>	CHEM 112	4	Or CHEM 104*	<input type="checkbox"/>	NATS 481	3	
<input type="checkbox"/>	MATH 102	3					

*Includes a 1 semester lab as a co-requisite. CHM 198 is the co-requisite for CHEM 103 and 111. CHEM 199 is the co-requisite for CHEM 104 and 112.

7. Elective Courses (3-5 s.h.)







Depending on courses used to fulfill core, these may need to be upper level.

✓	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 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.

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).

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 ³		3	Core ³
	3	RELS 110		3	Core ³		3	Core ³		3	BIOL ⁴
	3	ENGL ¹		3	BIOL 223		3	BIOL 371 or 384		3	BUSI 280
	4	BIOL 113 ²		3	BUSI 111		3	BIOL ⁴		3	BUSI ⁷
	4	CHEM 111 ²		3	MATH 123		3	BUSI 222		3	NATS 481
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	BIOT 200		3	Core ³		3	Core ⁴
	3	RELS 111		3	BIOL 290		3	BIOL 372 ⁵		3	BIOL ⁴
	3	ENGL ¹		3	BUSI 121		3	BIOL ⁴		3	BIOL 470 ⁶
	4	BIOL 114 ²		3	BUSI 176		3	BUSI 231		3	BUSI ⁷
	4	CHEM 112 ²		3	STAT 203		3	BUSI 323		3	Elective
Semester Total: 17			Semester Total: 15			Semester Total: 15			Semester Total: 15		

COURSE LEGEND	
	Core Courses
1. Choose from: ENGL 101, 102, 103, 104 3. Core electives should be chosen as follows: ONE Aesthetic and Performance Inquiry ONE Cultural & Linguistic Inquiry ONE Historical & Archival Inquiry ONE Social & Global Inquiry	
	Major Courses
2. Includes co-requisite lab 4. Choose a 300- or 400-level BIOL course 5. Currently offered in the spring term of even years 6. Currently offered in the spring term of odd years 7. Choose from: BUSI 311, 334, 352, 480, 486 (BUSI 311 satisfies the Social & Global Inquiry requirement).	
	Major + Core Courses
	Ancillary Courses
2. Includes co-requisite lab	
	Ancillary + Core Courses
2. Includes co-requisite lab	
	Electives
<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.