

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

## BIOLOGY MAJOR: BIOTECHNOLOGY EMPHASIS CHECKLIST (122 s.h.)

### 2025-26 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 [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 (12 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 12 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.		**	**	Satisfied by BIOT 300.
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 MATH 123 or CHEM 112.
Scientific Method & Lab Research				Social & Global Inquiry			
	**	**	Satisfied by BIOL 113 or 114.			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>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 Courses (44 s.h.) *Minimum 24 s.h. must be upper-level.*

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	BIOL 113*	4	Includes a one s.h. lab (BIOL 198) as a co-requisite.		BIOL _____	3	Choose: BIOL 371 or 372.
	BIOL 114*	4	Includes a one s.h. lab (BIOL 199) as a co-requisite.		BIOL 384	3	
	BIOL 200	3			BIOL 386	3	
	BIOL 223	3			BIOL _____	3	Choose: BIOL 423, 433, 474, or 475.
	BIOL 290	3			BIOL 470	3	
	BIOL _____	3	Choose: BIOL 333 or 334.		BIOL 300	3	
	BIOL 336	3			BIOL 490	3	

\*Minimum grade of C required to progress to BIOL 223.

## 3. Ancillary Requirements (35 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.		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					

## 4. Elective Courses (6 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	FNDN 201		3	BIOL 371		3	BIOL <sup>6</sup>
	3	RELS 110 or 160		3	PHIL <sup>3</sup>		3	BIOL 384		3	BIOL <sup>6</sup>
	3	ENGL <sup>1</sup>		3	BIOL 223		3	BIOL <sup>5</sup>		3	BIOL <sup>5</sup>
	4	BIOL 113 <sup>4</sup>		3	CHEM 221		3	PHYS 111		3	NATS 481
	4	CHEM 111 <sup>4</sup>		3	MATH 123		3	Elective		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	Core <sup>2</sup>		3	Core <sup>2</sup>		3	Core <sup>2</sup>
	3	RELS 111		3	Core <sup>2</sup>		3	Core <sup>2</sup>		3	Core <sup>2</sup>
	3	ENGL <sup>1</sup>		3	BIOL 281		3	BIOL 372		3	BIOL <sup>6</sup>
	4	BIOL 114 <sup>4</sup>		3	CHEM 222		3	BIOL 386		3	BIOL <sup>6</sup>
	4	CHEM 112 <sup>4</sup>		3	STAT 203		3	PHYS 112		3	Elective
Semester Total: 17			Semester Total: 15			Semester Total: 15			Semester Total: 15		

COURSE LEGEND	
	<b>Core Courses</b>
1. Choose from: ENGL 101, 102, 103, 104 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. Choose from: PHIL 100, 103, 105, 106, 109, or 210	
	<b>Major Courses</b>
4. Includes co-requisite lab 5. Choose any BIOL course 6. Choose a 300- or 400-level BIOL course	
	<b>Major + Core Courses</b>
	<b>Ancillary Courses</b>
	<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.*