

Student Name: \_\_\_\_\_ ID # \_\_\_\_\_

Advisor Name: \_\_\_\_\_ Anticipated Graduation Date: \_\_\_\_\_

## BIOLOGY MAJOR CHECKLIST: ALL STREAMS (122 s.h.) 2026-27 Academic Calendar

### 1. Inquiry: Ways of Knowing – Core Requirements (37 - 40 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
<b>FOUNDATIONAL INQUIRIES (25 sem. hrs.)</b>				Academic Writing Requirement <sup>1</sup>			
<i>Academic Research &amp; Writing</i>				<b>WAYS OF KNOWING (12 - 15 sem. hrs.)</b>			
	ENGL _____	3	Choose two of ENGL 101, 102, 103, 104.	In addition to the courses on the left, students must take an additional 12 – 15 sem. hrs. from each of the following categories, <i>9 s.h. of which must be from outside of the student's major.</i>			
	ENGL _____	3					
<i>Foundations</i>				<i>Aesthetic &amp; Performance Inquiry</i>			
	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 on page two.
	FNDN 102	3	Normally taken before year three.	<i>Cultural &amp; Linguistic Inquiry</i>			
	FNDN 201	3				3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category on page two.
<i>Logical &amp; Ethical Reasoning</i>				<i>Experiential &amp; Embodied Inquiry</i>			
	PHIL _____	3	Choose one of PHIL 100, 103, 105, 106, 109, or 210.			3	<b>GENERAL STREAM ONLY:</b> Choose 3 sem. hrs. from the Experiential & Embodied Inquiry category on page two.
<i>Religious &amp; Spiritual Thought</i>				<i>Historical &amp; Archival Inquiry</i>			
	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 on page two.
	RELS 111	3		<i>Quantitative &amp; Computational Inquiry</i>			
	RELS 112	3			**	**	Satisfied by CHEM 112 or MATH 123.
<i>Scientific Method &amp; Lab Research</i>				<i>Social &amp; Global Inquiry</i>			
	**	**	Satisfied by BIOL 113 or 114.			3	Choose 3 sem. hrs. from the Social & Global Inquiry category on page two.

<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.

**NOTES:**

- Graduation requirement: A total of at least 122 s.h. of credit, including a minimum of 42 s.h. in the major, a minimum of 42 s.h. of upper-level credit (24 s.h. in the major), and a minimum cumulative GPA of 2.0 overall and in the major.
- 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 June 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.

## 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>Experiential &amp; Embodied Inquiry</b>	ART 305, 306, 307; BIOL 316, 318, 362, 364, 409, 410; BIOT 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, 373, 374, 375, 409, 410; HIST 310, 315, 316; HKIN 201, 202, 216, 235, 266, 336, 355, 455, 456, 457, 458, 459, 460; LING 398, 399; 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 1 sem. hr. HKIN Activity course; any Travel Study; any CCCU Global Ed course; any Au Sable course.
<b>Historical &amp; Archival Inquiry</b>	ART 237, 238; ECON 306; GENV 312; HIST 107, 108, 135, 306, 339, 391; LDRS 302; 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, 220, 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, 220; THTR 348.

## 2. Stream Courses – Choose your stream below.

### General Stream (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 371	3	
	BIOL 114*	4	Includes a one s.h. lab (BIOL 199) as a co-requisite.		BIOL 372	3	
	BIOL 223	3			BIOL 384	3	
	BIOL 281	3			BIOL 386	3	
	BIOL _____	3	Choose: BIOL 312, 314, 315, 316, or 318.		BIOL _____	3	
	BIOL _____	3	Choose: BIOL 308, 360, or 345.		BIOL _____	3	
	BIOL _____	3	Choose: BIOL 333 or 334.		BIOL _____	3	

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

### Biotechnology Emphasis Stream (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 from: 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 from: BIOL 423, 433, 474, or 475.
	BIOL 290	3			BIOL 470	3	
	BIOL _____	3	Choose: BIOL 333 or 334.		BIOT 300	3	
	BIOL 336	3			BIOT 490	3	

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

### 3. Ancillary Requirements (29 – 35 s.h.)

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.	_____	3	MATH/STAT 203 (or CMPT 140*)
CHEM 221	3		NATS 481	3	
CHEM 222	3		PHYS 111	3	
CHEM 357	3	Biotechnology Stream only.	PHYS 112	3	
CHEM 358	3	Biotechnology Stream only.	*General Stream only.		

### 3. Elective Courses (6 – 9 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

# B.Sc. Degree *Biology* - 4 Year Plan

		YEAR 1
✓	s.h.	Fall
	1	FNDN 101
	3	RELS 110 or 160
	3	ENGL <sup>1</sup>
	4	BIOL 113 <sup>4</sup>
	4	CHEM 111 <sup>4</sup>
Semester Total: 15		

		YEAR 2
✓	s.h.	Fall
	3	FNDN 201
	3	PHIL <sup>3</sup>
	3	BIOL 223
	3	CHEM 221
	3	MATH 123
Semester Total: 15		

		YEAR 3
✓	s.h.	Fall
	3	BIOL 371
	3	BIOL 384
	3	BIOL <sup>5</sup>
	3	PHYS 111
	3	Elective
Semester Total: 15		

		YEAR 4
✓	s.h.	Fall
	3	BIOL <sup>6</sup>
	3	BIOL <sup>6</sup>
	3	BIOL <sup>5</sup>
	3	NATS 481
	3	Elective
Semester Total: 15		

		YEAR 1
✓	s.h.	Spring
	3	FNDN 102
	3	RELS 111
	3	ENGL <sup>1</sup>
	4	BIOL 114 <sup>4</sup>
	4	CHEM 112 <sup>4</sup>
Semester Total: 17		

		YEAR 2
✓	s.h.	Spring
	3	Core <sup>2</sup>
	3	Core <sup>2</sup>
	3	BIOL 281
	3	CHEM 222
	3	STAT 203
Semester Total: 15		

		YEAR 3
✓	s.h.	Spring
	3	Core <sup>2</sup>
	3	Core <sup>2</sup>
	3	BIOL 372
	3	BIOL 386
	3	PHYS 112
Semester Total: 15		

		YEAR 4
✓	s.h.	Spring
	3	Core <sup>2</sup>
	3	Core <sup>2</sup>
	3	BIOL <sup>6</sup>
	3	BIOL <sup>6</sup>
	3	Elective
Semester Total: 15		

## COURSE LEGEND

### Core Courses

- Choose from: ENGL 101, 102, 103, 104
- 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
- Choose from: PHIL 100, 103, 105, 106, 109, or 210

### Major Courses

- Includes co-requisite lab
- Choose any BIOL course
- Choose a 300- or 400-level BIOL course

### Major + Core Courses

### Ancillary Courses

### Ancillary + Core Courses

### Electives

*Summer Sessions are encouraged to reduce semester load and/or repeat courses*

*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.*

# B.Sc. Biology - Biotechnology Emphasis - 4 Year Plan

		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	PHIL <sup>3</sup>			3	BIOL 371 or 372			3	BIOL 336	
	3	ENGL <sup>1</sup>			3	BIOL 223			3	BIOL 384			3	BIOL 470	
	4	BIOL 113 <sup>4</sup>			3	CHEM 221			3	PHYS 111			3	CHEM 357	
	4	CHEM 111			3	MATH 123			3	Elective			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	Core <sup>2</sup>			3	Core <sup>2</sup>			3	Core <sup>2</sup>	
	3	RELS 111			3	BIOL 200			3	BIOL 333 or 334			3	BIOL <sup>5</sup>	
	3	ENGL <sup>1</sup>			3	BIOL 290			3	BIOL 386			3	BIOL 490	
	4	BIOL 114 <sup>4</sup>			3	CHEM 222			3	BIOL 300			3	CHEM 358	
	4	CHEM 112			3	STAT 203			3	PHYS 112			3	Elective	
Semester Total: 17				Semester Total: 15				Semester Total: 15				Semester Total: 15			

## COURSE LEGEND

### Core Courses

- Choose one of ENGL 101, 102, 103, 104.
- Core electives should be chosen as follows:
  - ONE Aesthetic and Performance Inquiry
  - ONE Cultural & Linguistic Inquiry
  - ONE Historical & Archival Inquiry
  - ONE Social & Global Inquiry
- Choose one of PHIL 100, 103, 105, 106, 109, or 210.

### Major Courses

- Includes co-requisite lab.
- Choose one of BIOL 423, 433, 474, or 475.

### Major + Core Courses

### Ancillary Courses

### Ancillary + Core Courses

### Electives

Summer Sessions are encouraged to reduce semester load and/or repeat courses.

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.