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

BIOLOGY HONOURS CHECKLIST CELL AND DEVELOPMENTAL BIOLOGY EMPHASIS (134 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.

			s of Knowing - Core Red				S.h.*) See Academic Calendar for details (twu.ca/calendar).			
√	COURSE	S.H.	NOTES	. Of III	COURSE	S.H.	NOTES			
FC	UNDATIONA	L INQ	UIRIES (25 sem. hrs.)		Academic Writing Requirement ²					
Aca	ademic Reseal	rch & V	Vriting	WAYS OF KNOWING (12 sem. hrs.)						
	ENGL	3	Choose 2 courses (6 sem. hrs.) from ENGL				ne left, students must take an additional 18 sem.			
	ENGL	3	101, 102, 103, 104.				n each of the following six categories. *At least 9 e of the student's major.			
Fou	ındations			Aes	sthetic & Perfo	ormanc	e Inquiry			
	FNDN 101	1	Compulsory during the first semester of the first year. ¹			3	Choose 3 sem. hrs. from the Aesthetic & Performance Inquiry category below.			
	FNDN 102	3	Normally taken before year 3.	Cul	ltural & Lingui	stic Inc	quiry			
	FNDN 201	3				3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category below.			
Log	gical & Ethical	Reaso	ning	Experiential & Embodied Inquiry						
	PHIL	3	Choose one of PHIL 100, 103, 105, 106, 109, or 210.	**	**	**	Satisfied by Program Requirements.			
Rel	igious & Spiri	tual Th	ought	His	torical & Arch	ival Inc	quiry			
	RELS 110	3	Compulsory during the first semester of the first year.			3	Choose 3 sem. hrs. from the Historical & Archival Inquiry category below.			
	RELS 111	3		Qua	antitative & Co	omputa	tional Inquiry			
	RELS 112	3		**	**	**	Satisfied by Program Requirements.			
Sci	entific Method	l & Lab	Research	Soc	cial & Global II	nquiry				
**	**	**	Satisfied by Program Requirements.	П		3	Choose 3 sem. hrs. from the Social & Global			

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 & Linquistic 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.

Inquiry category below.

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. ²Academic 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 Courses (40-42 s.h.) **COURSE** S.H. **NOTES COURSE NOTES** S.H. BIOL 113a,c **BIOL 336** 4 3 Or (BIOL 103,104 and 105)^a Or (BIOL 103 and 114)b BIOL 114a,c 4 **BIOL 371** 3 **BIOL 223** 3 **BIOL 372** 3 **BIOL 281** 3 **BIOL 384** 3 Choose from BIOL 212/312, BIOL 3 **BIOL 386** 3 214/314, 315, 316, or 318, Choose from BIOL 308, 360, or 345. 3 **BIOL 409 BIOL** 1 Choose from BIOL 333 or 334. **BIOL 410** BIOL 2 ^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. 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 Cell and Development Biology Courses (15 s.h.) **NOTES COURSE** S.H. **BIOL** 3 3 BIOL Choose 5 courses from the following: 3 **BIOL** BIOL 308, 312, 314, 315, 333, 334, 340, 343, 345, 346, 360, 423, 438, 440, 450, 470, or 474 or 475. **BIOL** 3 **BIOL** 3 4. Ancillary Requirements (29 s.h.) **COURSE** S.H. **NOTES COURSE NOTES** S.H. **CHEM 111** 4 Or CHEM 103* **MATH 124** 3 **CHEM 112** 4 Or CHEM 104* **NATS 481** 3 **CHEM 221** 3 **PHYS 111** 3 **CHEM 222** 3 **PHYS 112** 3 3 **MATH 123** Includes a 1 semester hour lab as a co-requisite. CHEM 198 is the co-requisite for CHEM 103 & 111, CHEM 199 the co-requisite for CHEM 104 & 112. 5. Elective Courses (11-13 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 two.ca/advising

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

- NOTE: A total of 134 s.h. of credit, including a minimum of 54 s.h. (36 s.h. in the major) of upper-level credit is required for graduation. A minimum overall (cumulative) GPA of 2.70 is required for graduation, and a GPA of 3.0 in Biology.
- 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.

		YEAR 1			YEAR 2			YEAR 3			YEAR 4			YEAR 5	COURSE LEGEND
✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	✓	s.h.	Fall	
	1	FNDN 101		3	FNDN 201		3	Core ¹			C 1		1	BIOL 409	Core Courses
	<u>'</u>	FINDIN IOT		3	FINDIN 201		3	Core			Core ¹		<u>'</u>	BIOL 409	 Core electives should be chosen as follows: ONE Logical & Ethical Reasoning
	3	RELS 110		3	Core ¹		3	BIOL 371		3	BIOL 336		3	BIOL ²	ONE Aesthetic and Performance Inquiry
	3	ENGL 103		3	BIOL 223		3	BIOL 384		3	BIOL ²		3	BIOL ²	ONE Cultural & Linguistic Inquiry ONE Historical & Archival Inquiry ONE Social & Global Inquiry
	4	BIOL 113		3	CHEM 221		3	PHYS 111		3	BIOL ²		3	NATS 481	Major Courses
	4	CHEM 111		3	MATH 123								3	Elective	2. Cell and Development. Choose from: BIOL
		,,,,,,,,,													308, 312, 314, 315, 333, 334, 340, 343, 345, 346, 360, 423, 438, 440, 450, 470,
															474, 475. 3. Choose 300- or 400-level BIOL course.
Semester Total: 15		S	Semester Total: 15		Semester Total: 12		Semester Total: 12		S	Semester Total: 13		Major + Core Courses			
		VEAD 1			YEAR 2			YEAR 3			YEAR 4			YEAR 5	500000 1195 1 2312 231123
		YEAR 1			YEAR 2			YEAR 3			YEAR 4			YEAR 5	Ancillary Courses
✓	s.h.	Spring	✓	s.h.	Spring	✓	s.h.	Spring	✓	s.h.	Spring	✓	s.h.	Spring	, , , , , , , , , , , , , , , , , , , ,
	3	RELS 111		3	Core ¹			Core ¹		3	Core ¹		2	BIOL 410	Ancillary + Core Courses
	3	ENGL 104		3	BIOL 281		3	BIOL 372		3	BIOL ³		3	BIOL ¹	
		ENIDAL 100			CHEM 222			DIOL 207		3	BIOL ³			BIOL ²	Electives
	3	FNDN 102		3	CHEM 222		3	BIOL 386		3	BIOL		3	BIOL ²	Summer Sessions are encouraged to reduce semester load and/or repeat courses.
	4	BIOL 114		3	MATH 124		3	PHYS 112		3	Elective		3	Elective	semesiei ioau anu/or repear courses.
	4	CHEM 112					3	Elective							
5	Semeste	er Total: 17	S	emeste	er Total: 12	S	emeste	r Total: 15	S	emeste	r Total: 12	S	emeste	er Total: 11	

This is an example of what a 5-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.