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

BIOLOGY HONOURS CHECKLIST (134 s.h.) BIOCHEMISTRY & MOLECULAR BIOLOGY EMPHASIS

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 Academic Calendar for details.										
*Un √	COURSE	S.H.	re modified for students who transfer in with 5/ s.h. o	or more	COURSE						
		<u> </u>		· ·		S.H.	NOTES				
			RIES (25 sem. hrs.)		Academic Writi						
Aca	ademic Researci	h & Wi	riting	WA	AYS OF KNOWI	NG (12	2 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							
	ENGL	3			each of the following categories, 9 s.h. of which must be from outside of the student's major.						
Fοι	ındations			Aes	thetic & Perform	ance In	quiry				
	FNDN 101	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.	Cui	ltural & Linguistic	c Inquir	y				
	FNDN 201	3				3	Choose 3 sem. hrs. from the Cultural & Linguistic Inquiry category below.				
Log	ical & Ethical R	easonii	ng	Exp	periential & Emb	odied II	nquiry				
	PHIL	3	Choose one of PHIL 100, 103, 105, 106, 109, or 210.		**	**	Satisfied by BIOL 409 & 410.				
Rel	igious & Spiritu	al Thou	ight	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.				
Sci	entific Method &	& Lab K	Research	Social & Global Inquiry							
	**	**	Satisfied by BIOL 113 or 114.			3	Choose 3 sem. hrs. from the Social & Global Inquiry category below.				
			students must take WRTG 100 (native English speake o the University. WRTG course credit may be include		•	_					
W	ays of Knowl	ing: C	Categories								
Aest	hetic & Performance	• Inquiry	ART 181, 182, 250; ENGL 207, 208, 310; HKII any Music Ensembles; any Music (MUSA) Privat			31, 369; N	MUSI 110; PHIL 370; SAMC 111, 370; THTR 130, 161;				
Cult	ural & Linguistic Inq	uiry	ANTH 210, 395; EDUC 496; ENGL 334, 340, any World Languages & Cultures course (CHIN	, 482; GREE 235; HEBR 245; HIST 237; IDIS 201; POLS 237; RELS 235, 245; SOCI 395; N, FREN, JAPA, RUSS, SPAN).							
Histo	orical & Archival Inq	luiry	ART 237, 238; ECON 306; GENV 312; HIST 1 PSYC 408; RELS 320, 351, 352, 475; SAMC 1	107, 108, 135, 306, 339, 391; MUSI 131, 132; NURS 230; PHIL 203, 314, 421; POLS 391; 112; SOCI 391; THTR 331, 332.							
Soci	al & Global Inquiry			DUC 345, 365; ENGL 348; GENV 111, 212, 322, 354; LING 101, 210, 302; MCOM 111, ; PHIL 208, 220, 310, 320; POLS 101, 211, 310, 312, 320, 493; PSYC 399; RELS 271, IR 348.							

2. Required Biology Courses (38 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 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 409	1						
	BIOL	3	Choose: BIOL 308, 360, or 345.		BIOL 410 2							
	BIOL	IOL 3 Choose: BIOL 333 or 334. *Minimum grade of C required to progress to BIOL 223.										

3. Required Biochemistry & Molecular Biology Courses (12 s.h.)

Choose four of: BIOL 333 or 334; 336, 423, 438, 470, 474, or 475.

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	BIOL	3			BIOL	3	
	BIOL	3			BIOL	3	

4. Ancillary Requirements (47 s.h.)

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✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
	CHEM 111	4	Includes a one s.h. lab (CHEM 198) as a co-requisite.		CHEM 357	3	
	CHEM 112	4	Includes a one s.h. lab (CHEM 199) as a co-requisite.		CHEM 358	3	
	CHEM 221	3			MATH 123	3	
	CHEM 222	3			MATH 124	3	
	CHEM 230	3			NATS 481	3	
	CHEM 240	3			PHYS 111	3	
	CHEM 321	3			PHYS 112	3	
	CHEM 322	3					

5. 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	✓	COURSE	S.H.	NOTES

NOTES:

- A total of 134 s.h. of credit, including a minimum of 51 s.h. of upper-level credit (36 s.h. in the major) is required to complete this degree. Students must have a minimum overall (cumulative) GPA of 2.7 to graduate, including a GPA of 3.0 in Biology.
- 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 TWU's exempt status with the Degree Quality Assessment Board.

		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	
		EVIDVI 404			EVIDAL COA			DIOI 071							Core Courses
	1	FNDN 101		3	FNDN 201		3	BIOL 371		3	Core ¹		1	BIOL 409	Core electives should be chosen as follows: ONE 10 File 10 File
	3	RELS 110 or 160		3	Core ¹		3	BIOL 384		3	BIOL ²		3	BIOL ²	ONE Logical & Ethical Reasoning ONE Aesthetic and Performance Inquiry ONE Cultural & Linguistic Inquiry
	3	ENGL 103		3	BIOL 223		3	BIOL ²		3	BIOL ³		3	BIOL ³	ONE Historical & Archival Inquiry ONE Social & Global Inquiry
	4	BIOL 113		3	CHEM 221		3	PHYS 111		3	CHEM 357		3	NATS 481	Major Courses
	4	CHEM 111		3	MATH 123		3	CHEM 322							2. Choose a 300- or 400-level BIOL course.
	_	(7)777777													 Biochemistry and Molecular Biology. Choose from: BIOL 333, 336, 423, 438, 470, 474, 475.
S	emeste	er Total: 15	s	emeste	er Total: 15	Se	emeste	r Total: 15	s	emeste	er Total: 12	s	emeste	er Total: 10	Major + Core Courses
		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	FNDN 102		3	CHEM 240		3	Core ¹		3	Core ¹		3	Core ¹	Ancillary + Core Courses
	3	RELS 111		3	CHEM 222		3	BIOL 372		3	Core ¹		2	BIOL 410	Electives
	3	ENGL 104		3	CHEM 230		3	BIOL 386		3	BIOL ³		3	BIOL ³	Summer Sessions are encouraged to reduce semester load and/or repeat courses.
	4	BIOL 114		3	MATH 124		3	BIOL ²		3	CHEM 358		3	CHEM 321	
	4	CHEM 112					3	PHYS 112							
S	emeste	er Total: 17	S	emeste	er Total: 12	Se	emeste	r Total: 15	S	emeste	er 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.