

Student Name: \_\_\_\_\_

Year entered TWU: \_\_\_\_\_

Advisor Name: \_\_\_\_\_

Anticipated Graduation Date: \_\_\_\_\_

# BIOTECHNOLOGY MAJOR CHECKLIST

THIS PROGRAM CHECKLIST IS INTENDED TO ASSIST STUDENTS AND ADVISORS IN ENSURING THAT ALL UNIVERSITY AND PROGRAM REQUIREMENTS ARE MET. THIS TOOL IS INTENDED FOR USE IN CONSULTATION WITH THE CURRENT ACADEMIC CALENDAR. IT IS THE RESPONSIBILITY OF THE **STUDENT** TO ENSURE THAT ALL REQUIREMENTS FOR THE GRANTING OF A DEGREE HAVE BEEN MET.

## 1. University Core Requirements (39 s.h.)\* †

\* University Core Requirements are modified for students who transfer in with 57 s.h. or more of credit. See Academic Calendar for details.

† Students may "double-count" a cross-listed core requirements course once. See <http://www.twu.ca/advising/corerequirements/> for more details.

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<b>ENGLISH (6)</b> <u>Compulsory</u> during first two semesters following completion of the English Language Writing Competency requirement <sup>1</sup>				<b>NATURAL SCIENCE (6)</b>			
<input type="checkbox"/>	ENGL 103	3	Students for whom English is a foreign language may take ENGL 101 for either ENGL 103 or ENGL 104.			***	Included in program requirements
<input type="checkbox"/>	ENGL 104	3				***	
<b>FINE ARTS (3)</b>				<b>PHILOSOPHY (3)</b>			
<input type="checkbox"/>	_____	3	May be chosen from Art, Fine Arts, Music, or Theatre. <sup>2</sup>	<input type="checkbox"/>	PHIL ____	3	
<b>HISTORY (3)</b>				<b>RELIGIOUS STUDIES (12)</b>			
<input type="checkbox"/>	HIST ____	3		<input type="checkbox"/>	RELS 101	3	Students may challenge the RELS 101 and/or 102 courses by writing an exam provided by the Religious Studies dept. <sup>4</sup>
<b>HUMAN KINETICS (4)</b>				<input type="checkbox"/>	RELS 102	3	
<input type="checkbox"/>	HKIN 190	2		<input type="checkbox"/>	RELS ____	3	Biblical-content course (middle digit 0-5)
<input type="checkbox"/>	HKIN ____	1	Activity course	<input type="checkbox"/>	_____	3	Christianity and Culture or Inter-Cultural Religious Studies Course <sup>5</sup>
<input type="checkbox"/>	HKIN ____	1	Activity course	<b>SOCIETY &amp; CULTURE (3)</b>			
<b>INTERDISCIPLINARY STUDIES (4)</b>				<input type="checkbox"/>	_____	3	See footnote 6.
<input type="checkbox"/>	IDIS 102	1	Spring semester of first year. <sup>3</sup>	<b>UNIVERSITY ORIENTATION (1)</b> <u>Compulsory</u> during first year.			
<input type="checkbox"/>	NATS 487	2		<input type="checkbox"/>	UNIV 101	1	Fall or Spring semester of first year. <sup>7</sup>
<input type="checkbox"/>	NATS 490	1					

<sup>1</sup> English Language Writing Competency Requirement: students must take WRTG 100 or WRTG 101 in their first semester at TWU (unless exempt when admitted to the University). WRTG course credit may be included toward a degree program as elective credit.

<sup>2</sup> May include three 1-s.h. large theatre and music ensembles, but not small ensembles or music lessons.

<sup>3</sup> IDIS 102 is compulsory in first year for all new students unless they have minimum 42 s.h. initial transfer credit.

<sup>4</sup> A passing grade allows the student to replace RELS 101 and/or 102 with an alternative biblical-content course(s).

<sup>5</sup> RELS course with a middle digit 6-9 or PHIL 210 or PHIL 310. If PHIL 210/310 is chosen, this will NOT also fulfill the Philosophy requirement.

<sup>6</sup> Students may choose from Anthropology, Communications, Economics, Geography (excl. 121/320), Modern Languages, Political Studies, Psychology, or Sociology.

<sup>7</sup> UNIV 101 is compulsory during the first semester of the first year for all new students unless they have minimum 27 s.h. initial transfer credit.

## 2. Required Biology and Biotechnology Courses (45 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	BIOL 113	3	Take in Year 1	<input type="checkbox"/>	BIOL 372	3	
<input type="checkbox"/>	BIOL 114	3		<input type="checkbox"/>	BIOL 384	3	
<input type="checkbox"/>	BIOL 223	3	Take in Year 2	<input type="checkbox"/>	BIOL 386	3	
<input type="checkbox"/>	BIOT 290	3	Take in Year 2	<input type="checkbox"/>	BIOL/BIOT 390	3	
<input type="checkbox"/>	BIOL 333	3		<input type="checkbox"/>	BIOL 423	3	
<input type="checkbox"/>	BIOL 334	3		<input type="checkbox"/>	BIOL/BIOT 470	3	
<input type="checkbox"/>	BIOL 336	3		<input type="checkbox"/>	BIOT 490	3	
<input type="checkbox"/>	BIOL 371	3					

### 3. Required Ancillary Courses (30 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	CHEM 111	3	Take in Year 1 (May substitute 103/104 or 103/112)	<input type="checkbox"/>	CHEM 358	3	
<input type="checkbox"/>	CHEM 112	3		<input type="checkbox"/>	MATH ____	3	Choose from: MATH 123 & 124, or MATH 123 & 102
<input type="checkbox"/>	CHEM 221	3	Year 2	<input type="checkbox"/>	MATH ____	3	
<input type="checkbox"/>	CHEM 222	3	Year 2	<input type="checkbox"/>	PHYS 111	3	
<input type="checkbox"/>	CHEM 357	3		<input type="checkbox"/>	PHYS 112	3	

### 4. Required Internships (3 s.h.)

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>	Biotech Practicum 100	1	Taken in the Spring semester	<input type="checkbox"/>	Biotech Practicum 200	2	In Industry during or after the 2 <sup>nd</sup> semester of Year 2

### 5. Required Co-Ops (2)\*

✓	COURSE	S.H.	NOTES	✓	COURSE	S.H.	NOTES
<input type="checkbox"/>				<input type="checkbox"/>			

\*BIOT 300 may substitute one of the required co-ops.

### 6. Elective Courses (5 s.h.)

✓	SUBJECT	COURSE #	S.H.	NOTES	✓	SUBJECT	COURSE #	S.H.	NOTES
<input type="checkbox"/>	_____	_____	_____		<input type="checkbox"/>	_____	_____	_____	
<input type="checkbox"/>	_____	_____	_____		<input type="checkbox"/>	_____	_____	_____	

➤ **Specific Graduation Requirements for B.Sc. Degree Biotechnology:**

- Minimum total of 122 s.h
- Minimum GPA of 2.5 for all courses in the major
- Minimum cumulative GPA of 2.5

➤ **Specific Requirements for B.A. or B.Sc. Degree:**

- Graduation requires a minimum of 122 s.h with 42 s.h at upper level
- Minimum cumulative GPA of 2.00 in studies completed at TWU
- Minimum GPA of 2.00 in major, 1.70 in minors, and concentrations; and General Studies minors and concentrations must average 2.00 overall
- Honours: 54 s.h., 39 upper, GPA of 3.0 required in BIOL and BIOT courses; GPA of 2.7 cumulative Major: 42 s.h., 24 upper level

➤ **NOTE:** It is the sole responsibility of the student to ensure that all requirements for the granting of a degree or diploma have been satisfactorily completed. Students are therefore cautioned to make absolutely certain that the number and combination of their courses meet all university and departmental requirements for the granting of a degree or diploma.

➤ **NOTE:** In order to be eligible for Graduation you must fill in an Application for Graduation Form and return it to Enrolment Services by April 30 of the year prior to your completion (there is no fee to apply for graduation). When you have handed in your application for graduation, Enrolment Services will complete a graduation audit 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).*