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

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 (twu.ca/calendar).

| $\checkmark$ | COURSE | S.H. | NOTES | $\checkmark$ | COURSE | S.H | NOTES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FOUNDATIONAL INQUIRIES (25 sem. hrs.) |  |  |  | $\square$ | Academic W | ing | quirement ${ }^{2}$ |
| Academic Research \& Writing |  |  |  | WAYS OF KNOWING (12 sem. hrs.) |  |  |  |
| $\square$ | ENGL | 3 | Choose 2 courses ( 6 sem. hrs.) from ENGL 101, 102, 103, 104. | In addition to the courses on the left, students must take an additional 18 sem. hrs., selecting 3 sem. hrs. from each of the following six categories. *At least 9 sem. hrs. must be from outside of the student's major. |  |  |  |
| $\square$ | ENGL | 3 |  |  |  |  |  |
| Foundations |  |  |  | Aesthetic \& Performance Inquiry |  |  |  |
| $\square$ | FNDN 101 | 1 | Compulsory during the first semester of the first year. ${ }^{1}$ | $\square$ |  | 3 | Choose 3 sem. hrs. from the Aesthetic \& Performance Inquiry category below. |
| $\square$ | FNDN 102 | 3 | Normally taken before year 3 . | Cultural \& Linguistic Inquiry |  |  |  |
| $\square$ | FNDN 201 | 3 |  | $\square$ |  | 3 | Choose 3 sem. hrs. from the Cultural \& Linguistic Inquiry category below. |
| Logical \& Ethical Reasoning |  |  |  | Experiential \& Embodied Inquiry |  |  |  |
| $\square$ | PHIL | 3 | $\begin{aligned} & \text { Choose one of PHIL 100, 103, 105, 106, } \\ & \text { 109, or } 210 \text {. } \end{aligned}$ | ** | ** | ** | Satisfied by Program Requirements. |
| Religious \& Spiritual Thought |  |  |  | Historical \& Archival Inquiry |  |  |  |
| $\square$ | RELS 110 | 3 | Compulsory during the first semester of the first year. | $\square$ | - | 3 | Choose 3 sem. hrs. from the Historical \& Archival Inquiry category below. |
| $\square$ | RELS 111 | 3 |  | Quantitative \& Computational Inquiry |  |  |  |
| $\square$ | RELS 112 | 3 |  | ** | ** | ** | Satisfied by Program Requirements. |
| Scientific Method \& Lab Research |  |  |  | Social \& Global Inquiry |  |  |  |
| ** | ** | ** | Satisfied by Program Requirements. | $\square$ | - | 3 | Choose 3 sem. hrs. from the Social \& Global Inquiry category below. |

${ }^{1}$ 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.
${ }^{2}$ 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.

## 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 \& Linguistic 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.
2. Required Biology Courses (38 s.h.)

| $\checkmark$ | COURSE | S.H. | NOTES | $\checkmark$ | COURSE | S.H. | NOTES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\square$ | BIOL 113 ${ }^{\text {a,b }}$ | 4 |  | $\square$ | BIOL 371 | 3 |  |
| $\square$ | BIOL 114 ${ }^{\text {a,b }}$ | 4 |  | $\square$ | BIOL 372 | 3 |  |
| $\square$ | BIOL 223 | 3 |  | $\square$ | BIOL 384 | 3 |  |
| $\square$ | BIOL 281 | 3 |  | $\square$ | BIOL 386 | 3 |  |
| $\square$ | BIOL | 3 | Choose from BIOL 312, 314, 315, 316, or 318. | $\square$ | BIOL 409 | 1 |  |
| $\square$ | BIOL | 3 | Choose from BIOL 308, 360, or 345. | $\square$ | BIOL 410 | 2 |  |
| $\square$ | BIOL | 3 | Choose from BIOL 333 or 334. |  |  |  |  |

${ }^{\text {a }}$ Minimum grade of C required to progress to BIOL 223.
${ }^{\mathrm{b}}$ 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 Biochemistry \& Molecular Biology Courses (12 s.h.)

| $\checkmark$ | course | S.H. | NOTES | $\checkmark$ | COURSE | S.H. | NOTES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\square$ | BIOL | 3 | Choose 2 courses from BIOL 333 or 334; 336, 423, 438, 470, 474, 475. | $\square$ | BIOL | 3 | Choose 2 courses from BIOL 333 or 334; 336, 423, 438, 470, 474. |
| $\square$ | BIOL | 3 |  | $\square$ | BIOL | 3 |  |

4. Ancillary Requirements (47 s.h.)

| $\checkmark$ | COURSE | S.H. | NOTES | $\checkmark$ | COURSE | S.H. | NOTES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\square$ | CHEM 111* | 4 | or CHEM 103* | $\square$ | CHEM 357 | 3 |  |
| $\square$ | CHEM 112* | 4 | or CHEM 104* | $\square$ | CHEM 358 | 3 |  |
| $\square$ | CHEM 221 | 3 |  | $\square$ | MATH 123 | 3 |  |
| $\square$ | CHEM 222 | 3 |  | $\square$ | MATH 124 | 3 |  |
| $\square$ | CHEM 230 | 3 |  | $\square$ | NATS 481 | 3 |  |
| $\square$ | CHEM 240 | 3 |  | $\square$ | PHYS 111 | 3 |  |
| $\square$ | CHEM 321 | 3 |  | $\square$ | PHYS 112 | 3 |  |
| $\square$ | CHEM 322 | 3 |  |  |  |  |  |

*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 ( 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

| $\checkmark$ | SUBJECT | COURSE \# S.H. | NOTES | $\checkmark$ | SUBJECT | COURSE \# S.H. | NOTES |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\square$ |  |  |  |  | $\square$ |  |  |  |
| $\square$ |  |  |  |  | $\square$ |  |  |  |
| $\square$ |  |  |  |  | $\square$ |  |  |  |

$>$ NOTE: A total of $134 \mathrm{~s} . \mathrm{h}$. of credit, including a minimum of 51 s .h. ( $36 \mathrm{~s} . \mathrm{h}$. 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.


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.

