

WORKSHEET FOR THE MAJOR IN CELL BIOLOGY & NEUROSCIENCE (146)

DIVISION OF LIFE SCIENCES – SCHOOL OF ARTS AND SCIENCES

NAME _____ ID NUMBER _____

This worksheet outlines the requirements for majoring in Cell Biology and Neuroscience (CBN). It is your responsibility to keep track of your progress towards the completion of the major by updating this worksheet as you complete the required courses. Although we believe that this worksheet clearly delineates the requirements of the CBN major, we urge you to contact one of the CBN advisors (Dr. Shu Hsu, Dr. Kathy Scott, or Dr. Dunne Fong) if you have any questions about this document. This document should reflect your official academic transcript that we will review prior to your graduation. We expect that you will consult with a CBN advisor, in person or by email, on a regular basis (at least once each semester) to make sure that you are on track to meet these requirements before graduation. Please keep in mind that these steps are intended to minimize the chance that you might end up in the last semester of your senior year, being informed that you have not met all of your requirements for graduation with a CBN major!

I. REQUIRED CORE COURSES:

	<u>Course #</u>	<u>Credits</u>	<u>Date</u>	<u>Grade</u>
1. General Biology (8 CR)	01:119:101	4	_____	_____
	01:119:102	4	_____	_____
	OR			
	01:119:115	4	_____	_____
	01:119:116	4	_____	_____
	01:119:117	2	_____	_____
2. Fundamentals of Neurobiology (3 CR)	01:146:245	3	_____	_____
3. Fundamentals of Cell & Dev Biology (3 CR)	01:146:270	3	_____	_____
4. General Chemistry (9 CR)	01:160:161 OR	4	_____	_____
	01:160:163	4	_____	_____
	01:160:162 OR	4	_____	_____
	01:160:164	4	_____	_____
	01:160:171	1	_____	_____
5. Organic Chemistry (10 CR)	01:160:307 OR	4	_____	_____
	01:160:315	4	_____	_____
	01:160:308 OR	4	_____	_____
	01:160:316	4	_____	_____
	01:160:311	2	_____	_____

	<u>Course #</u>	<u>Credits</u>	<u>Date</u>	<u>Grade</u>
6. Genetics (4 CR)	01:447:380	4	_____	_____
7. Molecular Biology & Biochemistry (6 CR)	01:694:301 OR	3	_____	_____
	01:694:407 OR	3	_____	_____
	11:115:301	3	_____	_____
	01:694:408 OR	3	_____	_____
	01:146:478	3	_____	_____
	8. Mathematics (7-8 CR)	01:640:135 OR	4	_____
	01:640:151	4	_____	_____
	01:640:138 OR	4	_____	_____
	01:640:152 OR	4	_____	_____
	01:640:136 OR	4	_____	_____
	01:960:379 OR	3	_____	_____
	01:960:401	3	_____	_____
9. General Physics (8-10 CR)	01:750:203	3	_____	_____
	01:750:204	3	_____	_____
	01:750:205	1	_____	_____
	01:750:206	1	_____	_____
	OR			
	01:750:193	4	_____	_____
	01:750:194	4	_____	_____
	OR			
	01:750:201	5	_____	_____
	01:750:202	5	_____	_____

II. OPTIONS (YOU MUST COMPLETE "OPTION A" OR "OPTION B"):

OPTION A (General Track; 12-13 credits):

1. Two of the following courses:

	<u>Course #</u>	<u>Credits</u>	<u>Date</u>	<u>Grade</u>
Advanced Neurobiology I	01:146:445	3	_____	_____
Advanced Neurobiology II	01:146:447	3	_____	_____
Advanced Cell Biology	01:146:470	3	_____	_____
Advanced Developmental Biology	01:146:472	3	_____	_____
Immunology	01:146:474	3	_____	_____
Human Histology	01:146:322	4	_____	_____

2. Two elective courses at the 300-400 level in the life sciences area, equaling 6 or more credits. One course must have an included (*e.g. Animal Histology*) or an associated (*e.g. Systems Physiology and Systems Physiology Lab*) laboratory component, or be a 3-credit stand-alone laboratory course (*e.g. Advanced Cell Biology Lab*). With the approval of a CBN Advisor, two semesters of Research in Cell Biology and Neuroscience (at least 3 credits each semester), carried out under the direction of the same faculty member, may be used as one of the electives and fulfill the lab requirement. These electives must be selected in consultation with a faculty adviser.

<u>Course Name</u>	<u>Course #</u>	<u>Credits</u>	<u>Date</u>	<u>Grade</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

OPTION B (Honors Research Track; 18-19 credits):

1. Two of the following courses:

	<u>Course #</u>	<u>Credits</u>	<u>Date</u>	<u>Grade</u>
Advanced Neurobiology I	01:146:445	3	_____	_____
Advanced Neurobiology II	01:146:447	3	_____	_____
Advanced Cell Biology	01:146:470	3	_____	_____
Advanced Developmental Biology	01:146:472	3	_____	_____
Immunology	01:146:474	3	_____	_____
Human Histology	01:146:322	4	_____	_____

2. One elective course at the 300-400 level in the life sciences area, equaling 3 credits or more:

<u>Course Name</u>	<u>Course #</u>	<u>Credits</u>	<u>Date</u>	<u>Grade</u>
_____	_____	_____	_____	_____

3. Honors seminar:

	<u>Course #</u>	<u>Credits</u>	<u>Date</u>	<u>Grade</u>
Honors Seminar	01:146:405	3	_____	_____

4. Honors research:

	<u>Course #</u>	<u>Credits</u>	<u>Date</u>	<u>Grade</u>
Honors Research	01:146:408	3	_____	_____
Honors Research	01:146:409	3	_____	_____

RESIDENCY REQUIREMENTS FOR THE MAJOR: No more than 16 credits from among the “life science” courses required for completion of the major may be fulfilled by credits transferred from any school outside of Rutgers-NB. This rule applies to the requirements in Section I of the Major Worksheet: Items 1,2,3,6 and 7 (for Options A and B); and Section II: Items 1, 2 (for Option A) or Items 1, 2, 3 and 4 (for Option B). The residency rule does not apply to the chemistry, physics and math courses required for the major.

GRADE REQUIREMENTS FOR THE MAJOR: A grade of C or better in ALL courses credited toward the major is required for graduation AND each course may be repeated only once to replace D/F grades. Research and Independent Study courses have a prerequisite cum GPA of 2.8 or better. Courses taken on a “pass/fail” basis and courses with non-traditional formats (e.g., Online and Winter Session), whether offered by Rutgers or another university, may be used to satisfy the major requirements only with pre-approval from the CBN director of undergraduate advising. The Honors Research track requires a cumulative GPA of 3.4 or better and a GPA of 3.4 or better in courses credited toward the major.

CBN ADVISORS:

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COMMENTS: