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

DIVISION OF LIFE SCIENCES - SCHOOL OF ARTS AND SCIENCES

STUDENT NAME	ID NUMBER_

This worksheet outlines the requirements for majoring in Cell Biology and Neuroscience (CBN) in the default or honors track.

CBN major requirements (nb146 default curriculum, minimum 70 credits)

Requirement R1 : General Biology (3 courses = 10 credits)

Course name	Course number	Credits	Semester	Grade
General Biology I	01:119:115	4		
General Biology II	01:119:116	4		
Biological Research Lab	01:119:117	2		

Requirement R2: General Chemistry and Lab (3 courses = 9 credits)

Course name	Course number	Credits	Semester	Grade
General Chemistry	01:160:161	4		
Acceptable substitute:				
General Chemistry	01:160:162	4		
Acceptable substitute:				
Intro to Experimentation	01:160:171	1		

Requirement R3 : Organic Chemi				
Course name	Course number	Credits	Semester	Grade
Organic Chemistry	01:160:307	4		
Acceptable substitute:				
Organic Chemistry	01:160:308	4		
Acceptable substitute:				
Organic Chemistry Lab	01:160:311	2		
Acceptable substitute:				

Requirement R4: Physics lecture (2 courses, 1 from each set = min 6 credits)

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Course name	Course number	Credits	Semester	Grade		
Physics for the Sciences I (*also R5)	01:750:193	4				
Acceptable substitute:						
Physics for the Sciences II (*also R5)	01:750:194	4				
Acceptable substitute:						

Requirement R5: Physics Lab (2 courses,1 from each set = min 2 credits)

Course name	Course number	Credits	Semester	Grade
Physics for the Sciences I (*also R4) Acceptable substitute:	01:750:193	1		
Physics for the Sciences II (*also R4)	01:750:194	1		
Acceptable substitute:				

NOTE: BOTH R4 and R5 can be satisfied with 2 semesters of Physics for the Sciences (8 credits)

 Requirement R6 : Calculus/Statistics (2 courses,1 from each set = min 7 credits)

 Course name
 Course number
 Credits
 Semester
 Grade

 Calc I for Life/Soc Sci
 01:640:135
 4

 Acceptable substitute:
 01:960:401
 3

 Acceptable substitute:
 01:960:401
 3

NOTE: Students who have credits for Statistics I (01:960:211) need to take Statistics II (01:960:212) instead of Basic Stat Res or other Statistics course.

Requirement R7: Genetics (1 course	e = 4 credits)			
Course name	Course number	Credits	Semester	Grade
Genetics	01:447:380	4		

Requirement R8: Fundamentals of Cell & Dev Bio and Neurobiology (2 courses = 6 credits)				
Course name	Course number	Credits	Semester	Grade
Fund Neurobiology	01:146:245	3		
Fund Cell and Dev Bio	01:146:270	3		

Requirement R9: Biochemistry (1 course = 3	credits)			
Course name	Course number	Credits	Semester	Grade
Intro Biochem & Mol Bio Acceptable substitute:	01:694:301	3		

Requirement	R10 : Advanced courses (3 cour	ses = min 9 credits)			
	Course name	Course number	Credits	Semester	Grade
	Advanced Neuro I (Fall)	01:146:445	3		
	Advanced Neuro II (Spring)	01:146:447	3		
Choose	Advanced Cell Bio I (Fall)	01:146:470	3		
ANY 3	Advanced Cell Bio II (Spring)	01:146:480	3		
course combination	Advanced Development (Spring)	01:146:472	3		
	Immunology (Fall)	01:146:474	3		
	Honors Immuno (Spring)	01:146:476	3		

NOTE: Adv Neuro I and II, as well as Adv Cell Bio I and II are NOT sequences and have different content. Immunology and Honors Immunology have similar content and credits will not be given for both these courses.

Requirement R11 : Life Science Electives (choose 1 upper level course from the Approved					
Elective or Elective+Lab list - min 3 credits)					
Course name	Course number	Credits	Semester	Grade	

Requirement R12 (default track): Laboratory courses (choose 1 course from the Approved Labor Elective+Lab list - min 1 credit)

Course name	Course number	Credits	Date	Grade

CBN Honors Program requirements (nb146 Honors curriculum, minimum 78 credits)

Apply at the beginning of the Senior year! Contact program coordinator (Prof. Hsu) at hsu@dls.rutgers.edu and submit a CBN Honors Application Form.

This program requires a minimum CBN major and cumulative GPA of 3.4.

Previous research experience and credits are required for admission into this program.

The Honors Seminar is a thesis preparation course.

2 consecutive semesters of Honors Research are required, culminating in a written thesis and oral thesis defense due at the end of the senior Spring semester.

Requirement R12 (Honors track): Honors Seminar (1 course = 3 credits)						
Course name	Course number	Credits	Semester	Grade		
Honors Seminar (Spring)	01:146:405	3				

Requirement R13 (Honors track): Honors Research (2 courses = 6 credits)						
Course name	Course number	Credits	Semester	Grade		
Honors Research (Fall)	01:146:408	3				
Honors Research (Spring)	01:146:409	3				

For more information on the CBN major please visit the Departmental website:

https://cbn.rutgers.edu/academics/undergraduate/about-the-major