Biochemistry Program Sheet **Major/Academic Plan: BIOCHM-BS**

For a CCNY degree in Biochemistry complete the following courses

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY PLAN = BIOCHEMISTRY GRADUATION CHECK

Student Name:_____ **Student ID#:**_____

Science and Math Requirements	**Credits**	**Grade**	**Term (Fa, Sp, or Su) &Year taken**
Chem 10301 General Chemistry I & Lab	4	_____	_____
Chem 10401 General Chemistry II & Lab	4	_____	_____
Math 20100 Anal. Geom. & Calculus I	4	_____	_____
Math 21200 Anal. Geom. & Calculus II	4	_____	_____
Phys 20700 General Physics I	4	_____	_____
Phys 20800 General Physics II	4	_____	_____
Bio 10100 General Biology I	4	_____	_____
Bio 10200 General Biology II	4	_____	_____
	[*32 Total*]		
Bio 22900 Cell & Molecular Biology **OR**	4	_____	_____
Bio 20600 Introduction to Genetics	4	_____	_____
Math 21300 Calc III **OR**	4	_____	_____
CHEM 250 Mathematics for PChem	2	_____	_____
	[*6 or 8 Total*]		

Chemistry Major Requirements (60% of these courses must be taken at CCNY)

24300	Quantitative Analysis	4	_____	_____
26100	Organic Chemistry I	3	_____	_____
26200	Organic Chemistry Lab I	2	_____	_____
26300	Organic Chemistry II	3	_____	_____
33000	Physical Chemistry I	4	_____	_____
37400	Organic Chemistry Lab II	3	_____	_____
32002	Biochemistry I	3	_____	_____
32004	Biochemistry I Lab	2	_____	_____
43500	Physical Biochemistry	5	_____	_____
48005	Biochemistry II	3	_____	_____
		[*32 Total*]		

Recommended higher level classes (not major requirements):

44000	Journey to the center of the cell	3	_____	_____
44200	RNA Biochemistry & Mol. Bio.	3	_____	_____

Additional Chemistry Courses (Optional, some required for ACS certification)

Honors Research or Independent Studies e.g. CHEM 30100, 30200, 30300,
e.g. CHEM 30100, 30200, 30300, 31001, 31002, 31003, 31004
or other upper-level courses 425 required for ACS

	Credits	**Grade**	**Term/Year taken**
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Advisor's Remarks: _____

This student **has completed/ is completing** (circle one) the major requirements for a degree in Chemistry.

This student **will complete/will not complete** (circle one) all the requirements for an ACS certified degree (if the student will complete the requirements, then please send a copy of this graduation check to Denise Addison).

Date: _____ Advisor's Signature: _____

Instructions to complete the Graduation Check form.

1. Write the name of the student as it appears on the transcript and include the full EMPLID number.
2. For each course, enter the grade and the term (FA, SP, or SU) and year that the course was taken. If a course was transferred from another college, enter a grade of T (for transfer) and leave the term line blank. If a course was exempted due to AP credit from high school, enter AP for the grade and leave the term line blank.
3. If a course does not transfer properly, please give a comment if you are willing to approve an exception. For example, many students transfer CHEM 26200 instead of CHEM 27200. For transfer students, this is acceptable even though it is a 2 credit course instead of a 3 credit course.
4. Check to make sure that the GPA for Chemistry classes is greater than or equal to 2.0.
5. Check to make sure the student completed 120 credits total.
6. Check the student meets the **Residency requirement** by completing at least 30 credits at CCNY, as well as at least 60% of their major at CCNY. This means that typically, transfer students with more than 40 transfer credits may not epermit any courses during their last 30 credits.
7. Substitutions for some courses are permitted (common example, Physics 203 and 204 for 207 and 208 for transfer students and Chemistry 26200 for 27200 for transfer students)
8. If a student has repeated a course, only put the grade and semester and year taken for the highest grade.
9. After a student applies for graduation, then the advisor must complete the graduation check for the major

For ACS certification, the student must complete the following:

General Chemistry
CHEM 10301 and 10401

Foundation Courses
CHEM 24300, 26100, 33000, 32002, 42500

Advanced Courses
Standard Chemistry: CHEM 26300, 33200
Biochemistry: CHEM 43500, 48005

Total laboratory hours (400 h not including General Chemistry)
Standard Chemistry: CHEM 24300 (60 h), 27200 (75 h), 37400 (75 h), 33100 (60 h), 43400 (75 h), Independent Study/Honors Research (minimum 55 h which is approximately 1 semester for 3 credits)
Biochemistry: CHEM 24300 (60 h), 27200 (75 h), 37400 (75 h), 32004 (60 h), 43500 (60 h), Independent Study/Honors Research (minimum 70 h which is approximately 2 semesters for 3 credits each)