## Biochemistry Program Sheet

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

| **Science and Math Requirements** | **Credits** | **Grade** | **Term (FA, SP, or SU) and Year taken** |
|---|---|---|---|
| Chem 10301 General Chemistry I & Lab | 4 | _____ | _____ |
| Chem 10401 General Chemistry II & Lab | 4 | _____ | _____ |
| Math 20100 Anal. Geom. & Calculus I | 3 | _____ | _____ |
| Math 21200 Anal. Geom. & Calculus II | 3 | _____ | _____ |
| Phys 20700 General Physics I | 4 | _____ | _____ |
| Phys 20800 General Physics II | 4 | _____ | _____ |
| Bio 10100 General Biology I | 4 | _____ | _____ |
| Bio 10200 General Biology II | 4 | _____ | _____ |
| | [*30 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 | 3 | _____ | _____ |
| 37400 | Organic Chemistry Lab II | 3 | _____ | _____ |
| 32002 | Biochemistry I | 3 | _____ | _____ |
| 32004 | Biochemistry I Lab | 2 | _____ | _____ |
| 43500 | Physical Biochemistry | 5 | _____ | _____ |
| 48005 | Adv Biochemistry | 3 | _____ | _____ |
| | | [*31 Total*] | | |

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

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

| | **Credits** | **Grade** | **Term (FA, SP, or SU) and Year taken** |
|---|---|---|---|
| 42500 (required for ACS certification)_____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

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: _____

**Biochemistry Program Sheet**

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. Please check to make sure that the GPA for Chemistry classes is greater than or equal to 2.0.
5. Please check to make sure that the student completed 120 credits total.
6. Please check that the student meets the **Residency requirement** by completing a total of 80 credits at CCNY **or** the final 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)