

AGREEMENT FOR A DUAL DEGREE SCIENCE/PHARMACY PROGRAM

HOWARD UNIVERSITY/BROOKLYN COLLEGE

Whereas, Howard University, Washington D.C., through its College of Pharmacy, has a long and distinguished history of educating students from diverse backgrounds for careers in pharmacy and the pharmaceutical sciences; and

Whereas, Brooklyn College of the City University of New York, has a long and distinguished history of providing education in the humanities, mathematics, and sciences for students from diverse backgrounds; and

Whereas, both Howard University and Brooklyn College are interested in increasing the number of minorities in the professional field of pharmacy.

Now, therefore, intending to be legally bound, Howard University and Brooklyn College agree that both institutions will work cooperatively to recruit and facilitate the entry of minority practitioners into the field of pharmacy by developing a joint program leading to the Bachelor of Arts (B.A.) degree in Chemistry from Brooklyn College and the Doctor of Pharmacy (Pharm. D.) degree from Howard University.

- A. Howard University, through the College of Pharmacy, herein referred to as the College of Pharmacy, agrees to:
1. Permit qualified Brooklyn College students, who have successfully completed a prescribed three-year course of study and have satisfied the College of Pharmacy admission criteria, to enroll in their fourth year, as first professional year students in the Pharm.D. program.
 2. Give priority in admission to dual degree program applicants from Brooklyn College when those applicants have completed the first three years of the dual program, have satisfied admission requirements of the Pharm.D. program, and their credentials are competitive with other applicants competing for admission to the Pharm. D. program
 3. Permit students who have entered the College of Pharmacy under this dual degree program and who have successfully completed their first year in the PharmD program to receive the Bachelor of Arts degree in Chemistry from Brooklyn College and continue their studies in the College of Pharmacy for completion of the final three years of their professional education for award of the Pharm.D. Degree.
NOTE: If an accepted Brooklyn College student enters the first year of the PharmD program, but does not perform at an acceptable level, the student will have the option to return to complete the last year of the Chemistry degree at Brooklyn College.
 4. Assist Brooklyn College by providing information on the College of Pharmacy's pre-pharmacy requirements to health professions advisors and other appropriate faculty and staff

B. Brooklyn College agrees to:

1. Cooperate with the College of Pharmacy in efforts to increase the recruitment of minority practitioners into the professions of pharmacy.
2. Sponsor annual health careers awareness programs in which careers in pharmacy will be among the health careers described during the program.
3. Advertise the availability of the Dual Degree Program as an incentive to students interested in the study of pharmacy.
4. Require students wishing to enter the Dual Degree Program to enroll in that program by completing an application form which includes a statement in which the applicant agrees to complete the remaining three years in the College of Pharmacy for the award of the Pharm.D. Degree.
5. Have discretion to limit enrollment in the Dual Degree Program to students who have completed a minimum number of credits in the specified curriculum at Brooklyn College.
6. Provide a three-year curriculum (attached) that will include the prescribed pre-pharmacy courses and other courses that will be required so that completion of first professional year of the Pharm.D. Program will have satisfied the requirements for the B.A. degree from Brooklyn College.
7. Award the Bachelor of Arts (B.A.) in Chemistry degree to students, who entered the pharmacy program under this agreement, completed the prescribed course of study and successfully completed the first professional year of the Pharm.D. program before the annual commencement exercises at Howard University.

C. Mutual Terms

1. The Parties agree that each student participant, while pursuing studies in the respective university, shall be considered for administrative, academic, and financial and such other purposes as a regular full-time student of the university then in attendance. Accordingly, each student participant shall be subject to all rules, regulations, policies and procedures of the university in attendance.
2. This Dual Degree Program shall become effective on the date of the final signature by the appropriate official of each university and shall remain in effect for a five-year period unless expressly modified by agreement of both parties or terminated upon ninety days' notice at the written request of either university.
3. This Agreement represents the entire understanding between the parties. This Agreement shall only be modified in writing with the same formality as the original Agreement. If the Agreement is either modified or terminated, students already participating in the program established by this Agreement shall be permitted to complete their studies in the College of Pharmacy.
4. The relationship between the parties to this Agreement to each other is that of independent contractors. The relationship of the parties to this contract to each other shall not be

contract. This provision shall not be construed to limit the sovereign immunity of the State System of Higher Education or the University.

6. Nondiscrimination. The parties agree to continue their respective policies of nondiscrimination based on Title VI of the Civil Rights Act of 1964 in regard to sex, age, race, color, creed, national origin, Title IX of the Education Amendments of 1972 and other applicable laws, as well as the provisions of the Americans with Disabilities Act. While completing their first year of study at Howard University, Brooklyn College students continue to be afforded protections under Title IX of the Education Amendments of 1972 and other applicable laws, as well as the provisions of Section 504 of the Rehabilitation Act of 1973 (as amended) and the Americans with Disabilities Act (ADA) of 1990. Howard University agrees to cooperate with Brooklyn College in its investigation of claims of discrimination or harassment. While completing a student is completing his/her first year of study at Howard University, Howard University agrees to report any incident in which a Brooklyn College student is the victim of sexual assault, dating violence, domestic violence, stalking or sexual harassment to the Brooklyn College Title IX Coordinator.

Approved: For Howard University:



Anthony Wurch, Ph.D., R.Ph.
Provost and Chief Academic Officer

Date: 11/14/23

Approved: For Brooklyn College:



April Bedford, PhD
Provost and SVP for Academic Affairs

**Appendix I: Curriculum Requirements for the
AGREEMENT FOR A DUAL DEGREE SCIENCE/PHARMACY PROGRAM
HOWARD UNIVERSITY/BROOKLYN COLLEGE**

Students wishing to complete the requirements for a Bachelor of Arts degree in Chemistry at Brooklyn College and proceed on to the HUCOP program must complete the Brooklyn College courses listed in Table 1; where necessary, Curriculum Groups are defined in Table 2. Completion of these requirements with satisfactory academic performance permits students to proceed to Howard University and complete the remaining requirements for the B.A. in Chemistry at Brooklyn College.

Table 1: Courses to be Completed at Brooklyn College in Years 1-3

Brooklyn College Course	Credits	HUCOP Requirement	BC Requirement
Courses to be taken in years 1-3 at Brooklyn College			
Chem 1200 & 1201	5	8 credits or the equivalent of 2 semesters in this subject	Chemistry BA
Chem 2200 & 2201	5		Chemistry BA
Chem 2110	2	<i>Necessary pre-re for Chem 3511/12</i>	Chemistry BA
Chem 3511 & 3512	5	8 credits or the equivalent of 2 semesters in this subject	Chemistry BA
Chem 3521 & 3522	5		Chemistry BA
Chem 3415	5		Chemistry BA
Chem 4571	3	2-4 credits or the equivalent of 1 semester in this subject	Chemistry BA
Chem 4600	3		Chemistry BA
Math 1201	4	4 credits or the equivalent of 1 semester in this subject	Chemistry BA
Math 1206	4	<i>The 6 remaining credits may include any of the following: Statistics, Computer Fundamentals, Operating Systems, Programming, Mathematics above a Calculus I, Medical Terminology, Humanities and/or Socio-behavioral Sciences) – 4 credits</i>	Chemistry BA
Phys 1100 or 1150	5	4 credits or the equivalent of 1 semester in this subject	Chemistry BA
Phys 2100 or 2150	5		Chemistry BA

One Course from Curriculum Group B	3	<i>At least 6 credits Socio-behavioral Sciences: Psychology, Economics, Sociology, Political Science, History, Education, Anthropology, Government or African American Studies – 3 credits</i>	U.S. Experience in Diversity
One Course from Curriculum Group C	3	<i>At least 3 credits in Humanities: Art, Drama, Theater, Literature, Mythology, Religion, Music, Foreign Languages or Philosophy</i>	Creative Expression
One additional course from the Creative Expression Flexible Common Core	3		Creative Expression
CASD 1707	3	3 credits or the equivalent of 1 semester in this subject	Individual and Society
College Option: Inter-Cultural Competency	3	<i>The 6 remaining credits may include any of the following: Statistics, Computer Fundamentals, Operating Systems, Programming, Mathematics above a Calculus I, Medical Terminology, Humanities and/or Socio-behavioral Sciences) – 3 credits</i>	College Option (1/3)
Two additional courses from the College Option	6		College Option (2/3)
Bio 1001	4.5	3 credits or the equivalent of 1 semester in this subject	
Bio 1002	4.5	<i>Necessary pre-re for Bio 3003</i>	
Bio 3003	3	4 credits or the equivalent of 1 semester in this subject	
Kins 3281	4.5	6 credits or the equivalent of 2 semesters of courses in this subject	
Kins 3285	4.5		

Table 2: Curriculum Groups

Curriculum Groups (Based on General Education Curriculum as of Fall 22)
<p>Curriculum Group A</p> <ul style="list-style-type: none">• AFST 3135 Black Political Identity in a Transnational Context, <i>or</i>• CLAS 3245 Contemporary Identity Politics <i>or</i>• CLAS 1110 Tyranny, Democracy, Empire: Classical Cultures, <i>or</i>• HIST 1101 The Shaping of the Modern World, <i>or</i>• JUST 1145 Classical Jewish Texts, <i>or</i>• PRLS 3105 Puerto Rican and Latin@ Cultural Formations
<p>Curriculum Group B</p> <ul style="list-style-type: none">• AFST 3265 (Re)presenting Black Men, <i>or</i>• AMST 1010 American Identities, <i>or</i>• AMST 3212 Decade in Crisis: The 1960s, <i>or</i>• ANTH 3135 The American Urban Experience: Anthropological Perspectives, <i>or</i>• HIST 1201 American Pluralism to 1877, <i>or</i>• HIST 1202 American Pluralism Since 1877, <i>or</i>• JUST 2047 American Jewish History, <i>or</i>• JUST 2085 Jews of New York, <i>or</i> College Option purposes) <i>or</i>• POLS 1230 People, Power, and Politics, <i>or</i>• PRLS 1001 Introduction to Puerto Rican and Latino Studies, <i>or</i>• PRLS 3203 Latin@ Diasporas in the United States, <i>or</i>• SEED 1001 Critical Issues in U.S. Education, <i>or</i>• SOCY 1201 Sociology of Hip Hop, <i>or</i>• SPCL 3000 LGBTQ Youth in Educational Contexts, <i>or</i>• WGST 1001 Introduction to Women’s Studies: Sex, Gender, and Power
<p>Curriculum Group C</p> <ul style="list-style-type: none">• ARTD 1010 Art: Its History and Meaning• MUSC 1300 Music: Its Language, History and Culture, <i>and/or</i>• MUSC 1400 Fundamentals of Music

A sample 3-year schedule is given in Table 3. This is only an example and this specific schedule is not mandated by this agreement.

Table 3: Sample Three-Year Schedule for Course Completion at Brooklyn College

	FALL		SPRING	
Year 1	Math 1201	4	Math 1206	4
	Chem 1200 & 1201	5	Chem 2200 & 2201	5
	Curric Group A course	3	Chem 2110	2
	Curric Group B course	3	English 1010	3
			Curric Group C course	3
Year 2	Chem 3511&3512	5	Chem 3521 & 3522	5
	Bio 1001	4.5	Bio 1002	4.5
	KINS 3281	4.5	KINS 3282	4.5
	English 1012	3	Course: Creative Expression	3
Year 3	Phys 1100	5	Chem 4600	3
	Chem 4571	3	Phys 2100	5
	Chem 3415W	5	Biol 3003	3
	Course: College Option	3	Course: Inter-Cultural Compet.	3
	CASD 1707	3	Course: College Option	3
	<i>Note: Students must have a GPA of at least 3.00 to take 19 credits this semester.</i>			

Table 4 gives a series of courses that can be transferred from Howard University to Brooklyn College to meet requirements for the B.A. degree in Chemistry. As indicated, Professional Practices Readiness I and Pharmaceutical Chemistry must be transferred to Brooklyn College to meet two specific requirements for the B.A. degree in Chemistry. Other courses do not satisfy specific requirements, but enough credits must be transferred from Howard University to Brooklyn College to meet the 120 credits required for graduation. Students completing the 102 credit curriculum described above must therefore transfer 18 credits, inclusive of the 5 credits associated with the two required courses.

Table 4: Courses to be Completed at Howard University Meet the Requirements for the Brooklyn College BA in Chemistry

Brooklyn College Course	Credits	BC Requirement
Professional Practice Readiness (PPR I)*	2	Satisfies requirement for Chem 3900
Pharmaceutical Chemistry I*	3	Advanced Elective in Chemistry
Structures and Functions in Therapeutics	2	Chem 1000E
Pharmacological Therapeutics	3	Chem 1000E
Pharmaceutical Calculations	2	Chem 1000E
Drug Informatics	3	Chem 1000E
Pharmaceutics	4	Chem 1000E
Pharmacological Therapeutics II	3	Chem 1000E