

Four-Year Academic Plan

Student Name _____ Student ID _____ Major: Chemistry AS/Cell and Molecular Biology BS

YEAR 1 at Queensborough Community College

Semester 1			Semester 2			Summer		
G	ENGL 101: English Composition I	3	G	ENGL-102 English Composition I	3	M	CHE 152: General Chemistry II	4.5
M	MA 119: College Algebra	3	M	MA 440: Precalculus Mathematics	4	G	*Flexible Core Course	3
M	BI 201: General Biology I	4	M G	CH 151: General Chemistry I	4.5			
M	MA 121: Trigonometry	1	G	BIO 202: General Biology II	4			
G	*World Cultures and Global Issues	3	G	Individual and Society	3			
Total Hours		14	Total Hours		18.5	Total Hours		7.5

YEAR 2 at Queensborough Community College

Semester 1			Semester 2			Summer		
M	CHE 251: Organic Chemistry I	5	M	CHE 252: Organic Chemistry II	5		PH 311 College Physics A	4
G	Foreign Language or LA Elective	3-4	G	Creative Expression	3			
M	HE 102: Health, Behavior and Society	2	G	U.S. Experience in its Diversity**	3			
M	MA 441: Analytic Geometry and Calculus I	4	M	MA 442 Analytic Geometry and Calculus II	4			
Total Hours		14-15	Total Hours		15	Total Hours		

G GenEd | M Major | E Elective

Comments:

*Students are advised to consult with an advisor on course selection.

**SP 211 is recommended upon transition to John Jay

CUNY JUSTICE ACADEMY

JOHN JAY COLLEGE
in partnership with
QUEENSBOROUGH COMMUNITY COLLEGE



Four-Year Academic Plan

Student Name _____ Student ID _____ Major: Chemistry AS/Cell and Molecular Biology BS

YEAR 3 at John Jay from Queensborough Community College

Semester 1			Semester 2			Summer	
G	300-Level Justice Core	3	M	BIO 315: Genetics	3		
M	BIO 205: Eukaryotic Cell Biology	3	M	Biology Elective Course	3		
M	PHY 102: College Physics II	4	M	CHE 315: Biochemistry	4		
M	Elective	3	E	Communications or Learning from the Past*	3		
E	Elective	3	E	Elective	3		
Total Hours		16	Total Hours		16	Total Hours	

YEAR 4 at John Jay from Queensborough Community College

Semester 1			Semester 2			Summer	
M	Biology Elective Course	3	M	Capstone: BIO 488 or FOS 402	3		
M	Biology Elective Course	2	M	BIO 412: Molecular Biology	4		
E	Elective	3	M	Biology Elective Course	4		
E	Elective	3	E	Elective	3		
E	Elective	3		MAT 301: Probability and Statistics I	3		
Total Hours		14	Total Hours		14	Total Hours	

G GenEd | M Major | E Elective

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Comments

*If still needed.

This plan assumes that students are transferring to John Jay College with 60 credits. Students are required to earn 120 total credits in order to graduate with the BS degree.

Four-Year Academic Plan

Student Name _____ Student ID _____ Major: Chemistry AS/ Toxicology BS

YEAR 1 at Queensborough Community College

Semester 1			Semester 2			Summer		
G	ENGL 101: English Composition I	3	G	ENGL-102 English Composition I	3	M	CHE 152: General Chemistry II	4.5
M	MA 119: College Algebra	3	M	MA 440: Precalculus Mathematics	4	G	Flexible Core Course	3
M	BI 201: General Biology I	4	M	CH 151: General Chemistry I	4.5			
M	MA 121: Trigonometry	1	G	BIO 202: General Biology II	4			
G	*World Cultures and Global Issues	3	G	Individual and Society	3			
Total Hours		14	Total Hours		18.5	Total Hours		7.5

YEAR 2 at Queensborough Community College

Semester 1			Semester 2			Summer		
M	CHE 251: Organic Chemistry I	5	M	CHE 252: Organic Chemistry II	5		PHY 101	
G	Foreign Language or LA Elective	3-4	G	Creative Expression	3			
M	HE 102: Health, Behavior and Society	2	G	U.S. Experience in its Diversity**	3			
M	MA 441: Analytic Geometry and Calculus I	4	M	MA 442 Analytic Geometry and Calculus II	4			
Total Hours		14-15	Total Hours		15	Total Hours		

G GenEd | M Major | E Elective

Comments:

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**SP 211 is recommended.

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Four-Year Academic Plan

Student Name _____ Student ID _____ Major: Chemistry AS/ Toxicology BS

YEAR 3 at John Jay from Queensborough Community College

Semester 1			Semester 2			Summer
G	300-Level Justice Core	3	M	BIO 376: Human Anatomy and Physiology II	4	
M	TOX 313: Toxicology of Environmental and Industrial Agents	3	M	CHE 315: Biochemistry	4	
M	PHY 102: College Physics II	4	M	Part Three: Toxicology Elective	3-4	
M	BIO 375: Human Anatomy and Physiology I	4	G	Learning from the Past/Communications	3	
G	Elective	3				
Total Hours		17	Total Hours		14-15	Total Hours

YEAR 4 at John Jay from Queensborough Community College

Semester 1			Semester 2			Summer
M	TOX 425: Techniques of Analytical Toxicology	3	M	Capstone: TOX 401 or FOS 402	3	
M	TOX 426: Analytical & Quant. Toxicology Lab	2	M	TOX 430: Principles of Pharmacological Toxicology	3	
E	Elective	3	M	Part Three: Toxicology Elective	3-4	
E	Elective	3	M	MAT 301: Probability and Statistics	3	
E	Elective	3				
Total Hours		14	Total Hours		12-13	Total Hours

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