

BACHELOR OF SCIENCE IN CHEMISTRY, BIOCHEMISTRY CONCENTRATION TO DOCTOR OF PHARMACY DEGREE

Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes
Semester One: [17 Credit Hours]					
BSCI 10120 Biological Foundations (KBS, KLAB)	4			■	See NEOMED Pre-Professional Prerequisite Coursework
CHEM 10060 General Chemistry I (KBS) or CHEM 10970 Honors General Chemistry I (KBS) or CHEM 11060 General Chemistry I Boost (KBS)	4		C	■	See NEOMED Pre-Professional Prerequisite Coursework
CHEM 10062 General Chemistry I Laboratory (KBS, KLAB)	1			■	See NEOMED Pre-Professional Prerequisite Coursework
MATH 12021 Calculus for Life Sciences ¹	4			■	See NEOMED Pre-Professional Prerequisite Coursework
US 10097 Destination Kent State: FYE ²	1				
Kent Core Composition (KCP1)	3				See NEOMED Pre-Professional Prerequisite Coursework
Semester Two: [15 Credit Hours]					
CHEM 10061 General Chemistry II (KBS) or CHEM 10971 Honors General Chemistry II (KBS)	4		C	■	If CHEM 10060 was taken, select 10061; If CHEM 10970 was taken, select 10971; See NEOMED Pre-Professional Prerequisite Coursework
CHEM 10063 General Chemistry II Laboratory (KBS, KLAB)	1			■	See NEOMED Pre-Professional Prerequisite Coursework
MATH 12022 Probability and Statistics for Life Sciences ¹	3			■	See NEOMED Pre-Professional Prerequisite Coursework
PSYC 11762 General Psychology (KSS, DIVD)	3				See NEOMED Pre-Professional Prerequisite Coursework
Foreign Language ³	4				

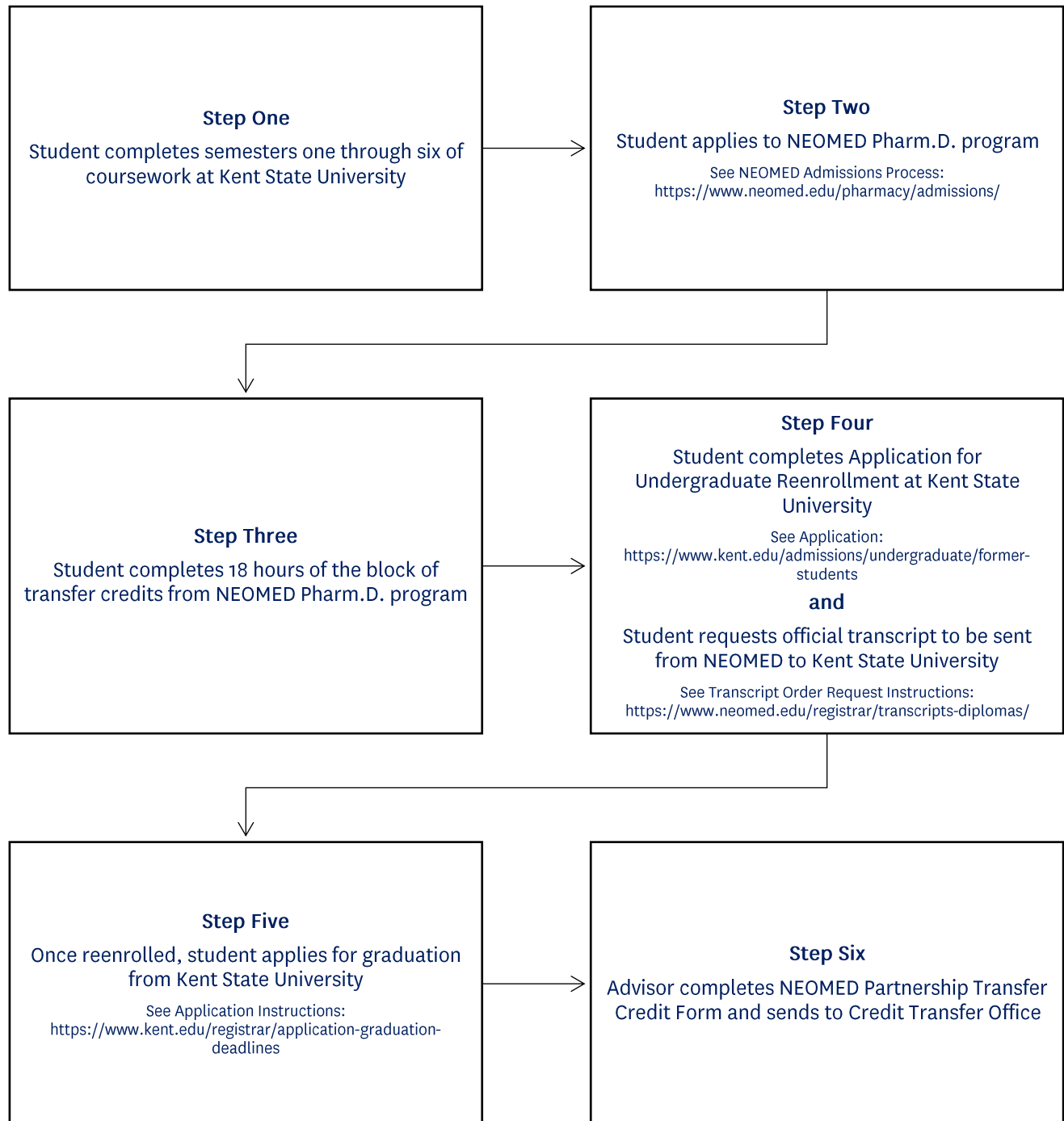
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Semester Three: [16 Credit Hours]					
CHEM 30475 Organic Chemistry Laboratory I (ELR)	1	Y		■	Offered in fall and summer only; See NEOMED Pre-Professional Prerequisite Coursework
CHEM 30481 Organic Chemistry I	3	Y	C	■	See NEOMED Pre-Professional Prerequisite Coursework
PHY 13001 General College Physics I (KBS) ⁴	4			■	See NEOMED Pre-Professional Prerequisite Coursework
PHY 13021 General College Physics Laboratory I (KBS, KLAB) ⁴	1			■	
SOC 12050 Introduction to Sociology (KSS, DIVD)	3				See NEOMED Pre-Professional Prerequisite Coursework
Foreign Language ³	4				
Semester Four: [18 Credit Hours]					
BSCI 30140 Cell Biology	4	Y		■	See NEOMED Pre-Professional Prerequisite Coursework
CHEM 30301 Inorganic Chemistry I	2	Y		■	
CHEM 30476 Organic Chemistry Laboratory II	1	Y		■	Offered in spring and summer only; See NEOMED Pre-Professional Prerequisite Coursework
CHEM 30482 Organic Chemistry II	3	Y		■	See NEOMED Pre-Professional Prerequisite Coursework
PHY 13002 General College Physics II (KBS) ⁴	4			■	
PHY 13022 General College Physics Laboratory II (KBS, KLAB) ⁴	1			■	
Kent Core Humanities and Fine Arts (KHUM/KFA) ⁵	3				

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Semester Five: [17 Credit Hours]					
CHEM 30105 Analytical Chemistry I	3	Y		■	Offered in fall and summer only
CHEM 30107 Analytical Chemistry Laboratory I (WIC)	1	Y	C	■	Offered in fall and summer only
CHEM 40567 Physical Chemistry for Life Sciences	4	Y		■	Offered in fall only
CHEM 40261 Principles of Biochemistry I	3	Y		■	Offered in fall only; See NEOMED Pre-Professional Prerequisite Coursework
Kent Core Composition (KCP2)	3				See NEOMED Pre-Professional Prerequisite Coursework
Kent Core Humanities and Fine Arts (KHUM/KFA) ⁵	3				
Semester Six: [18 Credit Hours]					
BSCI 30171 General Microbiology	4	Y		■	See NEOMED Pre-Professional Prerequisite Coursework
CHEM 40262 Principles of Biochemistry II	3	Y		■	Offered in spring only
CHEM 40568 Elementary Physical Chemistry Laboratory	1	Y		■	Offered in spring only
Anatomy/Physiology ⁶ BSCI 40460 Advanced Human Physiology and BSCI 40462, Advanced Human Physiology: Readings and Case Studies or BSCI 30517 Human Anatomy	4	Y		■	See NEOMED Pre-Professional Prerequisite Coursework
Kent Core Humanities and Fine Arts (KHUM/KFA) ⁵	6				
101 Total Credit Hours of Prerequisite Coursework at Kent State University					

1. If student has earned prior credit for MATH 12002 Analytic Geometry and Calculus I (5) instead of MATH 12021, the student may proceed to MATH 12022.
2. US 10097 is not required of transfer students with 25 credits (excluding College Credit Plus) or students age 21+ at the time of admission.
3. Fulfills College General Requirement.
4. PHY 23101 and PHY 23102 may be substituted as a package, in place of PHY 13001, PHY 13002, PHY 13021, PHY 13022.
5. Minimum one course must be selected from the Humanities in Arts and Sciences (KHUM) area, and minimum one course must be selected from the Fine Arts (KFA) area. One of these courses should be a Global Diversity Course (DIVG) to fulfill the Diversity Requirement.
6. Students may choose only one of the following options: BSCI 40460/40462 or BSCI 30517. While either option will fulfill the Anatomy & Physiology prerequisite course for the NEOMED Pharm.D. program, NEOMED prefers BSCI 40460/40462.

To be transferred as a block of courses from Northeastern Ohio Medical University (NEOMED) upon completion of the Doctor of Pharmacy degree				
NEOMED Course	NEOMED Credit Hours	KSU Course	KSU Credit Hours	Upper Division
PHDD 71205 Intro to Pharmaceutical Sciences	5.5 credit hours	General Elective	3 credit hours	
PHDD 71305 Pharmacokinetics and Pharmacodynamics	4 credit hours	BSCI 30156 Elements of Genetics	3 credit hours	Y
ANAP 71203 Human Anatomy Physiology & Pathophysiology 1	5 credit hours	CHEM 40251 Advanced Biological Chemistry Laboratory	2 credit hours	Y
PCEU 72233 Pharmaceutics Laboratory	2.5 credit hours	CHEM 40263 Physical Biochemistry	3 credit hours	Y
IMMU 71302 Immunology and Biotechnology	3 credit hours	Concentration Electives	9 credit hours	Y
	Total = 20		Total = 20	
121 Total Credit Hours to Graduate with the BS in Chemistry with Biochemistry Concentration, including NEOMED transfer coursework, from Kent State University				

**NORTHEASTERN OHIO MEDICAL UNIVERSITY (NEOMED)
PARTNERSHIP PROCESS**



Questions about Kent State University Bachelor of Science degree in Chemistry, Biochemistry Concentration Northeastern Ohio Medical University (NEOMED) Doctor of Pharmacy Program can be directed to Enrollment Management Academic Partnerships: pathways@kent.edu.

Graduation Requirements

Requirements to graduate with the BS degree program: To graduate, students must have minimum 120 credit hours, 42 upper-division credit hours of coursework, a minimum 2.000 major GPA and minimum 2.000 cumulative GPA. They must also fulfill an approved experiential learning experience, a two-course diversity requirement (domestic and global), complete a writing intensive course with a minimum C (2.000) grade. More specific graduation requirement information can be found in the Academic Policies section of the Kent State University Catalog (www.kent.edu/catalog).

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It is recommended that students intending to pursue the Bachelor of Science in Chemistry through Kent State University consult with academic advisors at both Kent State University and NEOMED.

Contact Information:

Kent State University

Academic Partnerships
Enrollment Management Operations & Administration
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pathways@kent.edu

Northeast Ohio Medical University

College of Pharmacy Dean's Office (A-26)
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