

Jamestown Community College/Duquesne University of the Holy Spirit

School of Pharmacy Articulation Agreement

Professional Doctorate Pathway- Pharm.D.

This cooperative agreement (Agreement) between Jamestown Community College (JCC) and Duquesne University establishes a six-year pathway leading to the Doctor of Pharmacy (Pharm.D.) degree. Students attend JCC for two years of pre-pharmacy coursework before applying to the Duquesne University School of Pharmacy for the “professional phase” of their studies.

Pre-pharmacy students begin at JCC as freshmen and earn the Associate in Science (A.S.) degree in Liberal Arts & Sciences: Mathematics & Sciences or the A.S. degree in Biotechnology. JCC coursework must total a minimum of 66 credits and must include the 44 Duquesne pre-pharmacy core requirements listed in Appendix A. Courses for A.S. Liberal Arts & Sciences: Mathematics & Sciences students are listed in Appendix B, and courses for A.S. Biotechnology students are listed in Appendix C.

Duquesne University School of Pharmacy Requirements

Note that this Agreement does not guarantee admission to Duquesne University or to its Pharm.D. program. In each academic year, Duquesne University will admit at least two and up to four JCC students who meet these minimum criteria:

- have completed an A.S. degree in Liberal Arts & Sciences: Mathematics & Sciences or in Biotechnology, including all courses listed in Appendix B or Appendix C;
- have earned a minimum grade of “C” in all courses listed in Appendix B or Appendix C;
- have earned a minimum overall grade point average (GPA) of 2.50 in all courses listed in Appendix B or Appendix C;
- achieve a minimum composite PCAT (Pharmacy College Admission Test) score of 375;
- participate in an interview process with the Duquesne University School of Pharmacy faculty;
- submit a letter of recommendation from a JCC faculty member; and
- provide evidence of leadership potential and commitment to the pharmacy profession.

If more than two JCC students meet the minimum criteria listed above, preference will be granted by Duquesne University to candidates who meet one or more of the following additional criteria:

- have achieved a minimum composite PCAT score of 400;
- have achieved a minimum overall GPA of 3.00 for all science and math courses listed in Appendix A;
- have achieved a minimum cumulative GPA of 3.00 for all courses listed in Appendix A.

Financial Aid Process for Professional Phase at Duquesne University

Students accepted under this program are eligible to be considered for Duquesne University academic scholarships and need-based financial aid funds. They should contact the Office of Financial Aid at 412-396-6607 or visit online at www.duq.edu/admissions-and-aid for additional information on the application process.

Admissions Process for Professional Phase at Duquesne University

Students should apply to Duquesne University by January 15 of their sophomore year at JCC. All applicants will be placed into a pool of JCC applicants from which students will be chosen by Duquesne University. Once offered acceptance, students will have two weeks to send their enrollment deposit to Duquesne in order to reserve their space in the program. If that deadline passes without a deposit being received by Duquesne University, the prospective student's space will be given to another student, and they will be placed at the bottom of the applicant wait list.

Appendix A. Duquesne Pre-Pharmacy Core Requirements.

BIO 1570 Principles of Biology I or BIO 1575 Biology: A Molecular Approach	4 cr.
BIO 1580 Principles of Biology II	4 cr.
CHE 1550 College Chemistry I	4 cr.
CHE 1560 College Chemistry II	4 cr.
CHE 2530 Organic Chemistry I	4 cr.
CHE 2540 Organic Chemistry II	4 cr.
PHY 1610 General Physics I or PHY 1710 Analytical Physics I	4 cr.
MAT 1710 Calculus and Analytic Geometry I	4 cr.
MAT 1540 Elementary Statistics	3 cr.
Approved Ethics Course*: PHL 2610 Introduction to Ethical Theory or PHL 2630 Contemporary Moral Problems or PHL 2720 Biomedical Ethics	3 cr.
ENG 1530 English Composition II	3 cr.
ENG 1540 Writing About Literature	3 cr.

*JCC students can choose to take one of the following approved Religious Studies courses in place of the approved Ethics course listed above (the equivalent ethics course will then be taken at Duquesne University), or in addition to all courses listed above to reduce their required coursework at Duquesne University by 3 credits: ANT/HIS/REL 2570 History of World Religions, ENG 2850 Literature of the Bible, PHL 2550 Philosophy of Religion, REL 1510 Introduction to Hebrew Bible/Old Testament, REL 1520 Introduction to Old Testament, REL 1530 Comparative Religion, REL 2580 Survey of Islamic Studies.

Appendix B. A.S. Mathematics and Science - Pre-Pharmacy Curriculum to be Taken at JCC. Note that students are not required to take courses in any specific semester-by-semester sequence. However, each course is not offered every semester and some courses have prerequisites. Students should work closely with a JCC advisor in planning their schedules.

First Year

First Semester		Second Semester			
BIO 1570 Principles of Biology I or 1575 Biology: A Molecular Approach	4 ()	BIO 1580 Principles of Biology II	4	()	
CHE 1550 College Chemistry I	4 ()	CHE 1560 College Chemistry II	4	()	
ENG 1530 English Composition II	3 ()	ENG 1540 Writing About Literature	3	()	
MAT 1600 Precalculus (if needed – or other Liberal Arts & Sciences Elective)	4 ()	MAT 1710 Calculus and Analytic Geometry I	4	()	
INT 1520 Student Success Seminar	(does not fulfill any Duquesne requirement)	Social Sciences Elective (a course in Economics is preferred)	3	()	
Semester Total	15	Semester Total	18		

Second Year

First Semester			Second Semester			
CHE 2530 Organic Chemistry I	4	()	CHE 2540 Organic Chemistry II	4	()	
MAT 1540 Elementary Statistics	3	()	Humanities or Social Sciences Elective	3	()	
PHY 1610 General Physics I or PHY1710 Analytical Physics I (if PHY 1710 is chosen, take one of the Humanities and Social Science Electives second year first semester, and take PHY 1710 second year second semester)	4	()	Humanities or Social Sciences Elective	3	()	
Approved Ethics or Religious Studies course	3	()	Humanities or Social Sciences Elective	3	()	
Social Sciences Elective	3	()	Liberal Arts & Sciences Elective	3	()	
Total	17		Total	16		

Appendix C. A.S. Biotechnology - Pre-Pharmacy Curriculum to be Taken at JCC. Note that students are not required to take courses in any specific semester-by-semester sequence. However, each course is not offered every semester and some courses have prerequisites. Students should work closely with a JCC advisor in planning their schedules.

First Year

First Semester		Second Semester		
BIO 1575 Biology: A Molecular Approach (suggested) or BIO 1570 Principles of Biology I	4 ()	BIO 1580 Principles of Biology II	4 ()	
CHE 1550 College Chemistry I	4 ()	CHE 1560 College Chemistry II	4 ()	
ENG 1530 English Composition II	3 ()	ENG 1540 Writing About Literature	3 ()	
MAT 1600 Precalculus (if needed – or other Liberal Arts & Sciences Elective)	4 ()	MAT 1710 Calculus and Analytic Geometry I	4 ()	
INT 1520 Student Success Seminar	(does not fulfill any Duquesne requirement)	MAT 1540 Elementary Statistics	3 ()	
Semester Total	15	Semester Total	18	

Second Year

First Semester		Second Semester		
BIO 2560 Genetics	4 ()	BIO 2800 Cell and Molecular Biology	4 ()	
CHE 2530 Organic Chemistry I	4 ()	BIO 2810 Biotechnology Research	2 ()	
PHY 1610 General Physics I or PHY 1710 Analytical Physics I (if PHY 1710 is chosen, take another Social Sciences Elective second year first semester, and take PHY 1710 second year second semester)	4 ()	CHE 2540 Organic Chemistry II	4 ()	
Approved Ethics or Religious Studies course	3 ()	Program Core Elective	4 ()	
Social Sciences Elective (a course in Economics is preferred)	3 ()	Social Sciences Elective	3 ()	
Semester Total	18	Semester Total	17	