

University of Saint Francis and Indiana Wesleyan University Articulation Agreement for the University of Saint Francis Physician Assistant Program

The University of Saint Francis (USF), in conjunction with Indiana Wesleyan University (IWU), work cooperatively in assisting highly qualified undergraduate students to enter the profession of Physician Assistant. This agreement will facilitate entrance into the Physician Assistant Studies Program at USF for such students and will benefit both institutions. The following principles apply to the guaranteed admission program. The agreement will begin for the 2023-2024 admission cycle (USF PA 2024 matriculation).

Students enrolled at IWU who are on target for graduation with a bachelor of science degree will be provisionally accepted to the Physician Assistant Studies Program at USF one year prior to their matriculation at USF provided they meet the following criteria.

1. The provisional acceptance at USF will be contingent upon the student's completion of the required courses and completion of an undergraduate degree, which meets the admissions standards stipulated by the USF PA Admissions Committee. All course grades must be C or above with a minimum cumulative GPA of 3.5 and science GPA of 3.0. Courses that must be completed at IWU are detailed in Appendix A of this document and include:
 - a. Principles of Biology (BIO 125)
 - b. General Chemistry I and II (CHE 125/125L and CHE 126/126L)
 - c. Organic Chemistry I (CHE 235/235L)
 - d. Biochemistry I (CHE 430)
 - e. General Psychology (PSY 150)
 - f. Developmental Psychology (PSY 250) OR Psychology of Abnormal Behavior (PSY 366)
 - g. Introduction to Sociology (SOC 150)
 - h. General Physiology (BIO 312) and Mammalian Anatomy (BIO 311) OR Anatomy and Physiology I (BIO 111/111L) and Anatomy and Physiology II (BIO 112/112L)
 - i. Microbiology (BIO 213/213L)
 - j. Genetics (BIO 412)
 - k. Cellular Biology (BIO 351)
 - l. Medical Terminology (EXS 190)
 - m. Applied Statistics I (MAT 204) OR Statistics for Social Sciences (MAT 305)
 - n. Preparing the Christian Health Professional (PMD 110)
 - o. Perspectives in Scientific Reasoning (PMD 310)

2. Additionally, students are encouraged to take the following courses if their schedules allow. These courses are not required but recommended. They include:
 - a. Histology (BIO 330)
 - b. Advanced Topics in Biology (BIO 396)
 - c. Immunology (BIO 440)
 - d. Research in Biology (BIO 495) OR Research in Chemistry (CHE 495) OR Research in Physics (PHY 495)
 - e. Foundations of Business (BUS 100)

3. Progression Standards

Students must:

- a. Have a written reference from the IWU Academic Advisor for pre-PA students (one from the Division of Natural Sciences designated advisor or from the Division of Health and Human Performance designated advisor, depending on the student's major) supporting that they are on track for agreement admissions criteria including that they are in good standing with IWU with no academic or professional issues.
 - b. Accumulate at least 1000 hours of paid patient care work experience approved by the faculty advisor prior to graduation from IWU.
 - c. Have experience with the PA role, such as interviewing, shadowing or working with PAs.
4. Students must formally apply to the USF PA Program via the CASPA application process. The GRE requirement is waived for the IWU students entering under this agreement.
 5. Students may submit records to USF via the IWU Academic Advisor for pre-PA students and CASPA beginning June 1 for USF PA matriculation the following August.
 6. Students must reserve their seat with the submission of a non-refundable deposit required of all incoming PA students by June 1 of matriculation year. The deposit money will be credited towards the first semester's tuition.
 7. Students must complete all USF enrollment materials required of matriculating PA students prior to the beginning of classes in August.
 8. The Graduate School at USF will make offers of provisional acceptance and its decision will be final. Matriculation is dependent upon completion of all admissions requirements including pre-requisite courses, maintenance of a cumulative GPA of 3.5 or above and science GPA of 3.0 or above, awarding of a baccalaureate degree, and a reference from the IWU faculty describing the student's ability to be successful in a graduate-level program.
 9. USF will provide informational support for IWU recruitment efforts.
 10. Once accepted to the program, students are required to meet on an annual basis with a University of Saint Francis Physician Assistant faculty mentor.
 11. Two (2) students will be accepted through this agreement from IWU per cohort. USF may increase this allotment in future cycles as it sees fit.
 12. For each admissions cycle, the window for early acceptance under this program begins on June 1 of the year prior to the PA program matriculation. Thereafter, additional qualified applicants from IWU will be considered on a wait list.

13. IWU pre-PA students not meeting these stringent requirements or not accepted under the terms of this Articulation Agreement are welcome to apply to USF via the typical CASPA admissions process.

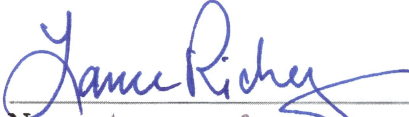
Cooperation Term

The term of this Agreement is three years. It will take effect from the date of signature by the representatives from both Parties. It may be altered, modified or extended only by mutual consent and written amendment signed by both Parties up to three months before the expiration. Either Party may terminate the agreement in advance of its normal expiration date by giving the other Party a sixty-day prior written notice. The Parties agree to work together amicably to resolve any disputes or disagreements that may arise during the Parties' performance of this agreement.

The Parties hereto have executed this Agreement this 13 day of March, 2023.

Other untouched issues, if there are any, should be addressed by both parties through consultation.

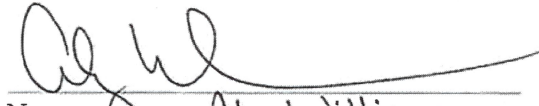
University of Saint Francis


Name Lance Richey, Ph.D.

Vice President for Academic
Title Affairs

3-20-23
Date

Indiana Wesleyan University


Name Aly Williams

VPAA
Title

3/13/2023
Date

APPENDIX A.
Courses Required for pre-PA Curriculum

All course grades must be C or above with a minimum cumulative GPA of 3.5, minimum cumulative science GPA of 3.0, and at least 1000 hours of paid clinical experience.

Courses that must be completed at IWU include:

a. BIO 125 Principles of Biology – 4 hours

The fundamental principles of genetics, cell development, and structure and function in cells, membranes, and molecules as related to organisms are covered. Representative life processes, organisms, and bio-techniques are studied from the cellular perspective to illustrate biological principles. Emphasis is placed upon man's real progress in coping with the new knowledge of biology and its effects on society's perspective about how the knowledge should be used.

b. CHE 125/125L General Chemistry I – 5 hours

A study of the fundamental principles and concepts of chemistry and their relations to representative elements and their compounds. This course starts with atoms, builds atoms into compounds, and then begins talking about the way in which elements and compounds behave. Laboratory portion: study of basic principles such as stoichiometry, thermodynamics, and spectrophotometry. The experiments will aid in the understanding of common laboratory techniques, data analysis and legal/ethical issues of laboratory record keeping. CHE-125L lab is taken as a co-requisite to CHE-125.

AND

CHE 126/126L General Chemistry II – 5 hours

A study of the fundamental principles and concepts of chemistry with an emphasis on solutions and equilibria. Topics covered include acid/base chemistry, oxidation/reduction reactions, thermodynamics, and nuclear chemistry. Laboratory portion: study exploring topics in parallel with lecture course along with a multi-week qualitative analysis experience. The experiments use techniques from 125L to assist in application of chemical concepts. This lab is taken as a co-requisite to CHE-126.

c. CHE 235/235L Organic Chemistry I – 4 hours

A study of the fundamental principles and concepts in organic chemistry. The course begins by focusing on molecular structure, acidity, physical properties of functional groups, and organic nomenclature. These topics form the basis for understanding and planning nucleophilic substitution and elimination reactions, which are then applied to both synthesis and reactivity of numerous functional groups. The concepts are subsequently applied to addition reactions of alkenes and alkynes. Laboratory portion: study explores the basic operations of organic synthesis and purification as well as natural product isolation. Chemical products are analyzed both by determination of physical properties as well as spectrophotometric analysis. Co-requisite: CHE-235.

d. CHE 430 Biochemistry I – 3 hours

A study of the chemistry of life processes. The first half of the course will focus on the structure and function of macromolecules and primary metabolites. Topics will include amino acids, proteins, enzymes, carbohydrates and lipids. The second half of the course will focus on major metabolic pathways and their regulation. Designed for chemistry and biology majors who intend to do graduate work related to this area.

e. PSY 150 General Psychology – 3 hours

Students will be introduced to the basic schools of thought within the field of psychology. Four major aspects of psychology will then be considered: (a) theories of personality and human development, (b) stress and adaptation, (c) interpersonal relationships and (d) psychopathology and therapy. These concepts will be explored in the light of research, personal experience, and a consideration of Biblical principles that apply to the study of human behavior. Throughout this introductory overview of the field, students will be assessed in, reflect upon, discuss, and write about the insights gained about themselves.

f. PSY 250 Developmental Psychology – 3 hours

A survey of human development and changes throughout the life cycle.

OR

PSY 366 Psychology of Abnormal Behavior – 3 hours

Systematic study of behavior pathology with special reference on forms of abnormal behavior, etiology, dynamics, and treatment.

g. SOC 150 Introduction to Sociology – 3 hours

An introductory analysis of the individual in culture and society, using a biblical framework.

h. BIO 312 General Physiology – 4 hours

A study of the basic physiological processes. Consideration is given to all the organ systems of man with special emphasis in the laboratory on the neuromuscular, respiratory, and cardiovascular systems.

AND

BIO 311 Mammalian Anatomy – 4 hours

Study of the anatomy of mammals with emphasis on the anatomy of man. The laboratory work includes the dissection of a mammal.

OR

BIO 111/111L Anatomy and Physiology I – 4 hours

An integrated course covering the structure and function of approximately half of the systems in the human body. Organization of the body and principles of support, movement, and control systems will be covered. Laboratory portion: this lab is taken as a co-requisite to BIO-111.

AND

BIO 112/112L Anatomy and Physiology II – 4 hours

A continuation of Anatomy and Physiology I. Structures and functions of the cardiovascular, respiratory, digestive, and urogenital systems will be covered. Laboratory portion: lab taken as a co-requisite to BIO-112.

i. BIO 213/213L Microbiology – 4 hours

A comprehensive introduction to general microbiology, with an emphasis on microbial structure, physiology, diversity, genetics and growth. Interactions of microorganisms with humans are discussed, including infectious diseases, pathogenesis, host immune defenses, and epidemiology. Laboratory activities include staining techniques, physiological tests, and identification of bacteria. Lab taken as a co-requisite to BIO-213.

j. BIO 412 Genetics – 3 hours

An integrated lecture/laboratory course that provides a thorough analysis of the factors governing trait inheritance in plant and animal life.

k. BIO 351 Cellular Biology – 3 hours

An in-depth study of the anatomy and function of animal and plant cells. The elegance and complexity of God's design for this smallest living unit will be revealed through lectures, in-class activities, and various assignments.

IWU courses that are not required but are recommended include:

a. BIO 330 Histology – 3 hours

This course highlights normal histology and the functional significance of micro anatomical structures. The lab and lecture portions of the course are completely integrated; the amount of time devoted to lecture or lab will vary depending on the particular topic.

b. BIO 396 Advanced Topics in Biology – 3 hours

A course in advanced topics in biology of current interest.

c. BIO 440 Immunology – 3 hours

A one-semester course which addresses the chemical and structural relationship of antigens and antibodies, the basis for immunological tolerance, T-cell development, B-cell development, autoimmune disease, cancer, and AIDS.

d. BIO 495 Research in Biology – 1-4 hours

This laboratory-based course is designed for biology majors who plan on graduate-level work in biology or other related medical sciences. Each student will participate in a faculty-led research project in his/her area of interest.

OR

CHE 495 Research in Chemistry – 1-4 hours

Students will engage in original research under the direction of a faculty member.

OR

PHY 495 Research in Physics – 1-4 hours

Students will engage in original research under the direction of a faculty member. This course may be repeated but only two credits total may be applied toward the physics minor. Specific areas of physics research may include but are not limited to astronomy, atomic physics, biophysics, condensed matter physics, mathematical physics, medical physics, physics education, to name a few.

e. BUS 100 Foundations of Business – 3 hours

An overall view of the business field including the business environment; organization, management, and operating problems of the enterprise; financial management and the risk function; and the marketing function.

l. EXS 190 Medical Terminology – 3 hours

This course will enable the student to speak, use and understand commonly used terms in the field of medicine. This course is intended to enhance the understanding and use of the language of medicine by building, analyzing, defining, pronouncing, and spelling diagnostic terms that relate to the structure of the body systems, disease processes, laboratory tests, and clinical procedures commonly found in the health care setting.

m. MAT 204 Applied Statistics – 3 hours

An in-depth introduction to descriptive and inferential statistical procedures including graphical and numerical data summary, basic principles of sampling and experimental design, random variables and probability distributions, estimation and hypothesis testing, contingency table analysis, and correlation and regression. Emphasizes conceptual understanding of statistical procedures and their implementation using statistical software.

OR

MAT 305 Statistics for Social Sciences – 3 hours

This is an upper-division course for the Social Sciences. Topics include measures of central tendency and dispersion and graphical representation of data. Other topics include inferential statistical theory and hypothesis testing for statistical significance. Bivariate and multivariate measure of statistical relationship include chi square, nominal and ordinal measures of association, correlation and regression, analysis of variance, and multiple correlation and regression techniques. Factor analysis and analysis of covariance are briefly introduced. Primarily for students concentrating in psychology, sociology, social work, criminal justice, or political science.

n. PMD110 Preparing the Christian Health Professional – 1 hour

This course is designed to introduce the freshman pre-med student to a Christian perspective of a career in medical science. Emphasis will be placed on the Christian medical scientist's role as a "world-changer" by reconciling a Christian worldview with the requirements, demands, and dilemmas encountered in medical (graduate) school and in the practice of medicine. For the purposes of this course a "medical scientist" is defined as a person engaged in any of the following: medicine, dentistry, veterinary medicine, optometry, physical therapy, occupational therapy, biomedical research, or physician's assistant.

o. PMD 310 Perspectives in Scientific Reasoning – 1 hour

This course is designed to assist students in preparing for comprehensive assessments that will measure their ability to integrate science, math, English, and other disciplines in a meaningful way. The development of critical thinking and reasoning skills will be emphasized by studying and analyzing cross-disciplinary problems such as the application of principles of physics and chemistry in the human body. This course will be helpful in preparation for national tests such as the MCAT, DAT, OAT, and GRE. Students will be expected to have completed the course requirements for their respective test, since the anticipated sequence is to take this course in the spring and then to take the test within a month or two of completion of this course.