



KETTERING MEDICAL CENTER

Addendum to Academic Bulletin for Undergraduate and Graduate Studies

2021-22

April 2021

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Revised April 2021

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Major Changes in this Addendum

1. **Human Biology:** A new course, BIO 425 Endocrinology, was added as a major elective.
2. **Nursing:** The program of study for students taking prerequisites towards the prelicensure BSN degree was divided into two tracks to better facilitate scheduling and faculty load.
3. **Physician Assistant:** The program added a set of Kettering College PA graduate competencies that replace the previous end-of-degree student learning outcomes (see p. 38). A slight revision was also made to the Fall V and Winter VI curriculum with the addition of PHAS 632 and 633 in place of PHAS 631 (see p. 46).
4. **Course Descriptions:**
 - a. **Human Biology** – Course descriptions were added for BIO 420 Topics in Biology and BIO 425 Endocrinology.
 - b. **Chemistry** – The prerequisite was removed from CHEM 105 Chemistry for Health Sciences.
 - c. **Physician Assistant** – The descriptions for PHAS 632 and 633 are included from the Spring Addendum for the sake of clarity.

Department of Human Biology

Melannie Furgason, PhD, Chair; Loren Barnhurst, PhD; Chishimba Nathan Mowa, PhD

MISSION STATEMENT

The human biology major at Kettering College provides an academically challenging curriculum ideal for students entering academic or professional graduate healthcare-related programs. Beyond intellectual growth, students will strengthen their spiritual connection to Christ and integrate their learning with their community.

BACHELOR OF SCIENCE WITH A MAJOR IN HUMAN BIOLOGY

As an accredited college directly affiliated with Kettering Medical Center, Kettering College offers a unique learning opportunity for persons interested in health-related careers. Students have numerous opportunities to evaluate their career choices through interaction with students and faculty in the health professions and nursing programs.

The human biology department offers a Bachelor of Science degree with a major in human biology. This degree provides the student with extensive preparation for professional or graduate studies in any field that works with the human organism. While the natural sciences are emphasized, students receive a thorough background in social sciences, cultural studies, and the humanities. In addition, graduates with a human biology major have an understanding of healthcare disciplines and the qualifications they demand.

There are two distinct curricular programs of study for the Bachelor of Science degree with a major in human biology. Students interested in medicine, physician assistant studies, physical therapy, dentistry, and other health-related professions that require baccalaureate or graduate degrees will receive a thorough preparation for admission to professional school by completion of the four-year program of study. Upon completion of the four-year program of study at Kettering College, the student may apply to a professional school or university to complete the required graduate study necessary for entry into the chosen profession. The second curricular program of study for the Bachelor of Science with a major in human biology is the “3+2”-year accelerated curriculum leading to the Master of Physician Assistant Studies at Kettering College. **This program is designed for students who begin with freshman courses at Kettering College. Students considering transferring to Kettering College should contact the admissions office to speak to an advisor in the Department of Human Biology.** Students with an excellent academic record as a human biology major (minimum 3.70 cumulative GPA and minimum 3.70 science GPA) are eligible to apply for early admission to the two-year Kettering College physician assistant graduate program.

Appropriate physician assistant courses taken during the fourth year are applied to the human biology major to complete the bachelor's degree. It is essential that each student become familiar with the admission requirements of the professional or graduate school to which he or she wishes to apply in order to select the appropriate courses within the major in human biology.

Admission to most health care-related professional and graduate schools is highly competitive. To increase the probability of acceptance into their professional schools of choice, each student should maintain high cumulative and science GPAs (3.5 or higher) while at Kettering College. Because of the demanding program of study and the necessity of maintaining a high grade point average, there are specific criteria for admission into and progression through the major in human biology.

ADMISSIONS REQUIREMENTS

HIGH SCHOOL STUDENTS

- Meet all requirements for admission to Kettering College.
- Minimum cumulative high school GPA of 3.3 (unweighted).
- ACT composite score of 23 or above OR SAT combined score of 1130 or above.
- ACT math sub score above the 50th percentile (or the equivalent SAT sub score) OR score of 70% or above on the math placement exam.

TRANSFER STUDENTS

- Meet all requirements for admission to Kettering College.
- Cumulative college GPA of at least 3.0.
- Science and math GPA of at least 2.5.
- Transfer credit equivalent to MATH 105 or above OR score of 70% or above on the math placement exam.

PROGRESSION AND GRADUATION REQUIREMENTS

- To be admitted into the human biology major, the student must be eligible to register for MATH 165 the first semester of the freshman year.
- The student must complete the core curriculum, included in the major's course of study.
- The student must earn a grade of C or above in all courses.
 - If a C or above is not earned in a course, then that course must be repeated. A student may not enroll in a course more than twice. Grades of WP and WF count as having been enrolled in a course.
 - If a student must repeat more than two courses during the attempted completion of the major, that student may be removed from the major. The student may apply for readmission following the Department of Human Biology readmission policy.

- Student must maintain a minimum GPA of 2.0 each semester to remain in the major.
- A cumulative GPA of at least 2.0 is required to progress and graduate from the major.
- **Note:** Students aspiring to enroll in graduate professional programs should achieve a much higher cumulative GPA than the minimum required for progression and completion. Competitive professional programs typically look for a GPA greater than 3.5.

CHARACTERISTICS OF A HUMAN BIOLOGY GRADUATE

- **Scholarship and commitment:** Student demonstrates dedication and excellence toward their calling with a passion for lifelong learning.
- **Altruism, compassion, and empathy:** Student displays concern and caring for others.
- **Accountability, responsibility, and dependability:** Student maintains a high level of professionalism.
- **An orientation toward service and social responsibility:** Student shares their talents and time to promote the well-being of their community.
- **Humility and cultural awareness:** Student recognizes that diversity is a facet of life to be respected and embraced.
- **Growth mindset:** Student recognizes that challenges provide an opportunity for growth and resiliency.
- **Integrity and respect:** Student follows Christian principles in their academic, work, and social endeavors.

END-OF-DEGREE STUDENT LEARNING OUTCOMES

Upon the completion of the human biology major, students will be able to:

- Demonstrate a broad knowledge of biological and physical sciences as related to human biology.
- Perform laboratory techniques and procedures commonly used in basic biological and physical science research.
- Organize, analyze, and critically evaluate and interpret scientific data.
- Communicate biological and physical science concepts for peer and professional audiences.
- Question and synthesize data and conclusions using previously acquired biological and physical science knowledge to develop and support their own assessments.
- Articulate a statement of their personal view of the interrelationship of faith and science.

COURSE TRANSFER POLICY

Human biology department courses are designated with the prefixes BIO and CHE. Lower-division courses (100- and 200-level) may be taken at other institutions and transferred into the human biology major at Kettering College for credit upon review and permission of the department chair.

Upper-division courses (300- and 400-level) are generally not transferable into the human biology major without permission from the department chair.

COURSE TIME LIMITS

Science and math courses have an expiration date of 10 years. Students admitted to the human biology major will need to repeat any science or math courses that were taken more than 10 years before their admission date. This requirement is also applied to any human biology major courses and to the math placement exam.

RESIDENCY REQUIREMENTS

Any student who has failed to register for courses for two or more semesters (excluding summer semesters) is considered to have broken residency and is no longer a student within the human biology major at Kettering College. Any student who has broken residency will need to reapply to the major. If readmitted, the student will reenter the major under the policies and curricula of the current *Academic Bulletin*. The criteria listed in the readmission policy will be used to determine whether to readmit the student.

LEAVE OF ABSENCE POLICY

Extended leaves of absence for personal/family issues (e.g., medical; semester abroad requests) will be evaluated and determined individually. Requests should be submitted to the department chair. Decisions will be made by the faculty in the human biology department.

READMISSION POLICY

To be considered for readmission, the student must submit an updated application and personal statement to the College and notify the admissions office that the application is for readmission.

- A student may reapply to the major after being dismissed from the major due to academic or non-academic reasons.
 - An application may not be considered for readmission until at least one semester/term has elapsed.
 - A student academically dismissed from the major must complete a minimum of 12 credits at a regionally accredited institution before being considered for readmission to the major.
- A student must reapply to the major if he/she has not enrolled in classes for two or more semesters (excluding summer semesters).
- A student must submit all transcripts to the admissions office.
- A student must be in good financial standing with the College.
- Applicants will be readmitted to the major under the policies and curriculum in place at the time of readmission.

- Requests for readmission to the major will be evaluated individually. The faculty of the human biology department will determine whether to readmit the student based on several criteria:
 - Cumulative GPA and science/math GPA while a student at Kettering College.
 - Cumulative GPA and science/math GPA while taking classes at other institutions.
 - Student's current standing within the major based on graduation requirements.
 - Student's previous conduct within the major, both academically and with regard to student life.
 - Patterns of withdrawals, repeats, and/or failures in the student's full academic record.
 - Submission of a personal statement with a description of the student's commitment and plan for academic success.
- Student may be required to accept a "contract for success" developed in conjunction with the student's advisor and the department chair.

PROGRAM OF STUDY FOR BACHELOR OF SCIENCE: HUMAN BIOLOGY MAJOR (4-YEAR)

The Bachelor of Science with a major in human biology requires 128 credits, including general education, with at least 40 credits in the upper division. Required major courses and elective major courses must total at least 40 credits, with at least 20 semester credits in the upper division. A service project is also required for graduation. The major in human biology requires the following:

I.	Required major courses.....	69 credits
BIO 105	Foundations of Biology I with lab	4
BIO 110	Foundations of Biology II with lab	4
BIO 130	Career Explorations.....	1
BIO 210	Human Anatomy with lab	4
BIO 305 ⁺	Human Physiology with lab.....	4
BIO 315 ⁺	Molecular Biology with lab.....	4
BIO 335 ⁺	Genetics with lab.....	4
BIO 341 ⁺	Biochemistry I with lab.....	4
BIO 200	Sophomore Seminar in Human Biology.....	2
BIO 300 ⁺	Junior Seminar in Human Biology	1
BIO 405 ⁺	Capstone Thesis	3
BIO 406 ⁺	Senior Seminar in Human Biology	1
CHE 121	General Chemistry I with lab.....	4
CHE 122	General Chemistry II with lab.....	4
CHE 221	Organic Chemistry I with lab	4

CHE 222	Organic Chemistry II with lab	4
MATH 165	College Algebra and Trigonometry.....	3
MATH 201	Probability and Statistics.....	3
MATH 220	Calculus I	3
PHYS 141	General Physics I with lab.....	4
PHYS 152	General Physics II with lab.....	4
II.	Required general education courses	41 credits
KETC 100	Strategies of Success – Freshman Seminar***	0
HIST XXX	History Requirement.....	3
	Students may take HIST 101, HIST 102, HIST 151, or HIST 152 to fulfill this requirement	
ENGL 101	Writing and Rhetoric I	3
ENGL 218	Writing and Research in the Sciences	3
COMM 215	Introduction to Human Communication	3
XXX Humanities Group II electives.....		6
	Students may take literature, history, philosophy, music, art, theater, or foreign language courses to fulfill this requirement	
RELB 101	SDA Fundamental Beliefs and the Healing Ministry of Christ.....	3
RELP 254	Morality and Medicine: Christian Perspective on Bioethical Issues	3
RELP 316	Spirituality in Healing and Health Care.....	3
RELP XXX	Humanities Group I Elective.....	3
PSYC 112	General Psychology.....	3
SOCI 115	Principles of Sociology.....	3
XXX	Social sciences elective (could be met by major elective)	3
PEAC 178	Wellness.....	1
PEAC XXX	Physical education elective	1
III.	One course chosen from the following:.....	3 credits
HESC 302	Mission Experience in Cultural Diversity	
HESC 310	Health Care Economics and Finance	

HESC 435	Community Health Perspectives	
HESC 345	History of Health Care in the United States	
HESC 371	Alternative Therapies for Health and Illness	
IV. Major electives: Choose at least five (four must be at 300 level or higher).....		15 credits
KETC 101	Medical Terminology	1
PSYC 138	Human Growth and Development*	3
PSYC 220	Abnormal Psychology*	3
SOCI 375	Cultural Diversity in Health Care	3
BIOL 151	Microbiology with lab*	4
BIOL 263	Sectional Anatomy	3
BIO 342 ⁺	Biochemistry II with lab.....	4
BIO 310 ⁺	Human Histology with lab	4
BIO 322 ⁺	Exercise Physiology: Acute and Chronic Responses **	3
BIOL 350	Pathophysiology.....	3
BIOL 420 ⁺	Topics in Biology	1-4
BIO 420 ⁺	Topics in Biology	1-4
BIO 421 ⁺	Principles of Neurobiology	3
BIO 422 ⁺	Mechanisms of Human Diseases.....	3
BIO 425 ⁺	Endocrinology	3
BIO 435 ⁺	Molecular Genetics	3
BIO 440 ⁺	Immunology	3
BIO 445 ⁺	Developmental Biology	3
V. Service Project		
TOTAL		128 credits

* Major electives to meet prerequisites for physician assistant program admission

** Major electives to meet prerequisites for doctorate in physical therapy program admission

*** Not required for students transferring in with CHE 121 and CHE 122 credits

⁺Transfer credit may be awarded based on department chair's evaluation.

SUGGESTED COURSE OF STUDY**FIRST YEAR: FALL**

BIO 105	Foundations of Biology I with lab	4
CHE 121	General Chemistry I with lab	4
MATH 165	College Algebra and Trigonometry	3
RELB 101	Seventh-day Adventist Fundamental Beliefs and the Healing Ministry of Christ	3
BIO 130	Career Explorations	1
KETC 100	Strategies of Success – Freshman Seminar	0
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	TOTAL	15

FIRST YEAR: WINTER

BIO 110	Foundations of Biology II with lab	4
CHE 122	General Chemistry II with lab	4
MATH 220	Calculus I	3
ENGL 101	Writing and Rhetoric I	3
HIST XXX	History requirement	3
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	TOTAL	17

SECOND YEAR: FALL

BIO 210	Human Anatomy with lab	4
CHE 221	Organic Chemistry I with lab	4
COMM 215	Introduction to Human Communication	3
PSYC 112	General Psychology	3
RELP 254	Morality and Medicine	3
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	TOTAL	17

SECOND YEAR: WINTER

BIO 335	Genetics with lab	4
CHE 222	Organic Chemistry II with lab	4
ENGL 218	Writing and Research in the Sciences	3
SOCI 115	Sociology	3
BIO 200	Sophomore Seminar in Human Biology	2
PEAC 178	Wellness	1

TOTAL	17
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THIRD YEAR: FALL

BIO 305	Human Physiology with lab	4
BIO 315	Molecular Biology with lab	4
PHYS 141	General Physics I with lab	4
RELX XXX	Religion elective	3
XXX	Humanities Group II elective (literature, history, philosophy, music, art, theater, or foreign language)	3

TOTAL	18
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THIRD YEAR: WINTER

XXX	Major elective	3-4
BIO 341	Biochemistry I with lab	4
PHYS 152	General Physics II with lab	4
MATH 201	Probability and Statistics	3
BIO 300	Junior Seminar in Human Biology	1

TOTAL	15-16
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FOURTH YEAR: FALL

XXX	Major elective	3-4
XXX	Major elective	3-4
BIO 405	Capstone Thesis	3
XXX	Humanities Group II elective (HUMN 410 Philosophy of Science)	3
HESC XXX	Required HESC course	3
PEAC XXX	Physical education elective	1
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	TOTAL	16-18

FOURTH YEAR: WINTER

XXX	Major elective	3-4
XXX	Major elective	3-4
XXX	Social sciences elective	3
RELP 316	Spirituality in Healing and Health Care	3
BIO 406	Senior Seminar in Human Biology	1
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	TOTAL	13-15

Note: A human biology student with a cumulative GPA of 3.5 or higher may take up to 20 credits in the fall semester and/or winter semester without prior approval.

PROGRAM OF STUDY FOR BACHELOR OF SCIENCE: HUMAN BIOLOGY MAJOR (“3+2”-YEAR MPAS ACCELERATED CURRICULUM)

Highly qualified Kettering College students enrolled in the human biology major (minimum 3.70 cumulative GPA and minimum 3.70 science GPA) who express a desire to accelerate their studies and meet admission requirements for the Master of Physician Assistant Studies (MPAS) degree are eligible to apply to the “3+2”-year MPAS accelerated program of study. **This program is designed for students who begin with freshman courses at Kettering College. Students considering transferring to Kettering College should contact the admissions office to speak to an advisor in the human biology department.** All Kettering College students wishing to apply to the PA program must complete the MPAS application, which is available from the PA admissions coordinator. Applications are due in the PA office no later than Oct. 1 of the year prior to matriculation. Those students accepted by the physician assistant department into the “3+2”-year MPAS accelerated program of study have the potential to complete both degrees in an accelerated fashion. **This program of study is only for Kettering College students who have not earned bachelor’s degrees,** are enrolled in the human biology major, and desire to accelerate their completion for the graduate program in physician assistant studies. Students who pursue this program of study are **not guaranteed** admission to the PA program.

The major in human biology with an accelerated program of study for pre-physician assistant students requires the following:

I.	Required major courses.....	65 credits
BIO 105	Foundations of Biology I with lab	4
BIO 110	Foundations of Biology II with lab	4
BIO 130	Career Explorations.....	1
BIO 305	Human Physiology with lab.....	4
BIO 210	Human Anatomy with lab	4
BIO 315	Molecular Biology with lab.....	4
BIO 335	Genetics with lab.....	4
BIO 341	Biochemistry I with lab.....	4
BIO 200	Sophomore Seminar in Human Biology.....	2
BIO 300	Junior Seminar in Human Biology	1
CHE 121	General Chemistry I with lab	4
CHE 122	General Chemistry II with lab.....	4
CHE 221	Organic Chemistry I with lab	4
CHE 222	Organic Chemistry II with lab	4

MATH 165	College Algebra and Trigonometry.....	3
MATH 220	Calculus I	3
MATH 201	Probability and Statistics.....	3
PHYS 141	General Physics I with lab.....	4
PHYS 152	General Physics II with lab.....	4
II.	Required general education courses	41 credits
KETC 100	Strategies of Success – Freshman Seminar	0
HIST XXX	History Requirement.....	3
	Students may take HIST 101, HIST 102, HIST 151, or HIST 152 to fulfill this requirement	
ENGL 101	Writing and Rhetoric I	3
ENGL 218	Writing and Research in the Sciences	3
COMM 215	Introduction to Human Communication	3
XXX Humanities Group II electives.....		6
	Students may take literature, history, philosophy, music, art, theater, or foreign language courses to fulfill this requirement	
RELB 101	SDA Fundamental Beliefs and the Healing Ministry of Christ.....	3
RELP 254	Morality and Medicine: Christian Perspective on Bioethical Issues	3
RELP 316	Spirituality in Healing and Health Care.....	3
RELP XXX	Humanities Group I elective.....	3
PSYC 112	General Psychology.....	3
SOCI 115	Principles of Sociology.....	3
PSYC 138	Human Growth and Development (social sciences elective)*	3
PEAC 178	Wellness.....	1
PEAC XXX	Physical education elective	1
III.	Major electives: Must take the following	4 credits
BIOL 151	Microbiology with lab*	4

IV.	One HESC course chosen from the following:.....	3 credits
	HESC 302	Mission Experience in Cultural Diversity
	HESC 310	Health Care Economics and Finance
	HESC 435	Community Health Perspectives
	HESC 345	History of Health Care in the United States
	HESC 371	Alternative Therapies for Health and Illness
V.	PA major courses applied to BS degree	16 credits
	PHAS 508	Evidence-Based Medicine1
	PHAS 512	CMM Dermatology.....1
	PHAS 571	CMM Infectious Disease.....2
	PHAS 518	CMM Pulmonology5
	PHAS 522	CMM Endocrinology.....3
	PHAS 551	Behavioral Medicine2
	PHAS 553	Clinical Genetics2
VI.	Service project	
	TOTAL	129 credits

* Major electives required for physician assistant program admission

SUGGESTED COURSE OF STUDY**FIRST YEAR**

Fall and winter	35
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SECOND YEAR

Fall and winter	34
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SECOND YEAR: SUMMER

XXX	Humanities Group II elective (literature, history, philosophy, music, art, theater, or foreign language)	3
BIOL 151	Microbiology (major elective)	4
PSYC 138	Human Growth and Development (major elective)	3
RELX XXX	Religion elective	3

TOTAL	13
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THIRD YEAR: FALL

BIO 305	Human Physiology with lab	4
BIO 315	Molecular Biology with lab	4
PHYS 141	General Physics I with lab	4
XXX	HESC requirement	3
XXX	Humanities Group II elective (Philosophy of Science)	3

TOTAL	18
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THIRD YEAR: WINTER

BIO 341	Biochemistry I with lab	4
PHYS 152	General Physics II with lab	4
MATH 201	Probability and Statistics	3
PEAC XXX	Physical education elective	1
RELP 316	Spirituality in Healing and Health Care	3
BIO 300	Junior Seminar in Human Biology	1

TOTAL	16
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Entry point to PA program

THIRD YEAR: SUMMER

PHAS 512	CMM Dermatology*	1
PHAS 551	Behavioral Medicine*	2
PHAS 553	Clinical Genetics*	2
PHAS XXX	PA professional courses	8
RELP 507	Clinical Ethics I	1

TOTAL 14

FOURTH YEAR: FALL

PHAS 508	Evidence-Based Medicine*	1
PHAS 522	CMM Endocrinology*	3
PHAS 571	CMM Infectious Disease*	2
PHAS XXX	PA professional courses	15

TOTAL 21

FOURTH YEAR: WINTER

PHAS 518	CMM Pulmonology*	5
PHAS XXX	PA professional courses	17

TOTAL 22

Note: Courses marked with the asterisk (*) are applied to the human biology major to complete the bachelor's degree.

Division of Nursing

DEPARTMENT PERSONNEL

Program Leadership:

Paula Reams, PhD, APRN, CNP, CNE, LMT, Dean of Nursing and Chair of Undergraduate Prelicensure BSN

Denise Sekerak, PhD, RN, Associate Dean of Nursing for Student Affairs

Lisa Huber, MSN, RN, COI, Chair, RN-to-BSN, Chair of RN-to-BSN

Beverley McLean, MSN, RN, Inter-professional Center Simulation Co-Coordinator

Phillip Smith, BA, CHSOS, EMT-P, Inter-professional Center Simulation Co-Coordinator

Program Faculty:

Ashley Barnett, MS, RNC-OB, C-EFM; Marisa Blahovich, MS, RN ; Adelaide Durkin, MSN, RN, COI, CNE; Shirna Gullo, DNP, RN; Cynthia Hammond, PhD, MS, RN; Melinda Hopkins, DNP, RN; Jeanette Little, DNP, RN, FACHE, NEA-BC, FABC; Cynthia Parker, PhD, RN, COI; Devon Skinner, MSN, RN; Jean Stivers, MS, RNC, CNE; Joan Ulloth, PhD, RN, CNE; Deborah Warren, MS, RN

Program Staff:

Jessica Allen; Mary Harden; Gerson Hortua; Courtney Sewell

PROGRAM TRACKS OFFERED

- Prelicensure Bachelor of Science in Nursing (BSN)
- LPN-to-Bachelor of Science in Nursing (LPN-to-BSN)
- RN-to-Bachelor of Science in Nursing (RN-to-BSN)

BACCALAUREATE PHILOSOPHY AND ORGANIZING FRAMEWORK

Mission: The mission of the faculty of the Division of Nursing is to educate individuals to become competent professional nurses who meet the healthcare needs of individuals, families, communities, and populations. Within the context of Christian caring, our graduates are educated to provide compassionate care to the whole person.

Philosophy: The faculty affirm that a baccalaureate degree in nursing is the level of education needed to prepare tomorrow's graduates for contemporary nursing practice in order to assist individuals, families, communities, and populations to achieve an optimal individualized state of physical, mental, spiritual, and social well-being. The faculty shares a common understanding of curricular concepts that are addressed in levels of progression in the nursing curriculum:

Whole-person care is an approach to patient care that values individuals as persons made in God's image and influenced by a composite of physical, mental, social, environmental, and spiritual needs. The mind-body-spirit connection is recognized as a crucial factor in achieving optimum health and well-being. As nurses care for patients, they affirm that each human being is endowed by the Creator with the power to choose, exert free will, learn, and grow. As individuals mature, they have accountability and responsibility for decisions that affect their personal outcomes.

Christian caring is defined as providing nursing care in the tradition of the Master Healer. Nurses who provide Christian caring give compassionately to the whole person as a response to understanding God's love and grace toward humanity. The goal is to foster optimum health, provide restoration and quality of life when possible, and bring comfort in suffering and dying, to anyone in need. This "ministry of caring" is a human response of service through which we reveal God's divine spirit.

Professional nursing is embodied by the baccalaureate nurse, who is a generalist functioning autonomously and interdependently with members of the healthcare team and who is accountable for professional practice and image. **Professional nurses** use clinical judgment and reasoning to improve, maintain, or recover health, and to achieve the best possible quality of health, until death. **Professional baccalaureate nurses** are discriminators of research, implementers of evidence-based practice, and skillful users of communication and informatics who are knowledgeable of economic, political, and sociocultural factors that affect healthcare delivery systems and patient outcomes. They commit themselves to compassionate caring, and strong ethical values, and to the continuous development of themselves and others. They adhere to the regulations and code of nursing practice, assume accountability and responsibility for outcomes in their own practice and in delegated nursing care, and demonstrate a spirit of collaboration and flexibility.

Learning is a lifelong journey of discovery of knowledge, skills, values, and attitudes in intellectual, psychomotor, emotional, and spiritual domains. It incorporates education from multiple avenues that contribute to the whole to build healthy individuals and societies. Understanding and applying theories of teaching can contribute to more effective learning.

Continuum of care represents the complex concepts of environment, lifespan development, and sociocultural interaction that influence the provision of effective nursing care to individuals, families, communities, and populations.

END-OF-DEGREE STUDENT LEARNING OUTCOMES

The Bachelor of Science in Nursing graduate:

- Synthesizes knowledge from the arts and sciences and from nursing theory, practice, and evidence-based research to provide and to manage the healthcare needs of diverse community populations, patients, and families across the continuum of healthcare.
- Uses professional nursing judgment, informed by Christian principles, moral and ethical reasoning, professional nursing standards, and evidence-based practice to promote health, prevent disease, and provide safe, competent, whole-person nursing care across the continuum of healthcare.
- Is a compassionate and conscientious nurse who serves humanity and the profession of nursing in the spirit of Christian caring.
- Uses written, verbal, non-verbal, and emerging technological methods to communicate effectively in the provision, management, and coordination of healthcare across the life span.
- Functions as a collaborative member of the interdisciplinary healthcare team to promote health, prevent disease, and provide evidence-based nursing care to individuals, families, communities, and populations across the continuum of healthcare.
- Incorporates leadership and management skills, and an understanding of organizations, to promote safety and quality care for individuals, families, communities, and populations.
- Designs care based upon an understanding of how regulatory policies, economic, political, and socio-cultural forces directly and indirectly influence the healthcare system and professional nursing practice.
- Engages in learning-centered experiences that promote lifelong personal and professional growth within the scope of baccalaureate nursing practice.

Prelicensure Bachelor of Science in Nursing (BSN)

DESCRIPTION OF DEGREE

The prelicensure BSN degree at Kettering College is an innovative program designed to prepare individuals for professional registered nurse practice and leadership. The curriculum can be completed in either three or five years of continuous study, providing alternative tracks for students who prefer either a full-time or part-time curriculum. The degree consists of 125 semester credits, including 62 credits from arts and sciences courses and 63 nursing credits.

APPROVAL AND ACCREDITATION

The program is approved by the Ohio Board of Nursing, 17 S. High St., Suite 660, Columbus, OH 43215-3466, and accredited by the Accreditation Commission for Education in Nursing (ACEN), 3390 Peachtree Road N.E., Suite 1400, Atlanta, GA 30326; 404-975-5000; www.acenursing.org.

ADMISSION

- Admission to the prelicensure program occurs two times each year — once for the fall semester and once for the winter semester. Note: An exception to the two times per year admission is the LPN-to-BSN track, which admits students once a year for the fall semester.
- **To be considered for admission prior to completion of all prerequisite courses, college transcripts must reflect completion of at least one prerequisite science course that meets admission criteria.**
- **Deadlines:** Application materials, including transcripts and student personal statement forms, are due by the deadlines outlined below.

FALL ADMISSION DEADLINES *

- Applications are due by the end of January.
- Applications received after the end of January will be considered for program admission to fill any spots available after Kettering College's offers of admission have been made.
- The Kettering College offer of admission will be **communicated** by the end of February. **An admitted student will have until May 1 to either accept or decline the offer of admission.**
- New student admission deposit is due by the beginning of May.
- Registration typically opens by the month of June.
- Final transcript(s) are due (all students) by mid-July.
- Students admitted after the end of May will have their admissions decision communicated by mid-June and will have 10 days to accept or decline.

*See College website for specific deadline dates.

WINTER ADMISSION DEADLINES

Kettering College offers rolling admission to the BSN prelicensure program track's Winter entry term. Rolling admission means:

- Applications will be evaluated on a first-come, first-served basis when an applicant has achieved the minimum requirements for admission.
- Offers of admission will be granted on a first-come, first-served basis whereby a student is ranked according to when the application was submitted, and transcripts received.
- All other things being equal, Kettering College students will be given preference over transfer students.

ADMISSION CRITERIA

Applicants are considered for admission based on the following criteria:

1. Applicants must meet all Kettering College admission requirements.
2. Applicants must present college transcripts reflecting:
 - A cumulative GPA of 2.8 or above (on a 4.0 scale) AND a minimum grade of C in all required prerequisite courses.
 - Science prerequisite courses (minimum grade of C with a cumulative GPA of 2.8)

BIOL 119	Human Anatomy and Physiology I	4 credits
BIOL 129	Human Anatomy and Physiology II	4 credits
CHEM 105	Chemistry for the Health Sciences	4 credits
BIOL 151	Microbiology	4 credits
 - Other required general education prerequisite courses (minimum grade of C)

ENGL 101	Writing and Rhetoric I	3 credits
ENGL 102	Writing and Rhetoric II	3 credits
MATH 105	Fundamentals of Mathematics	3 credits
MATH 201	Probability and Statistics	3 credits
PSYC 112	General Psychology	3 credits
PSYC 138	Human Growth and Development	3 credits
SOCI 115	Sociology	3 credits
HUMN	Humanities elective*	3 credits
KETC 101	Medical Terminology	1 credit

* Literature, history, philosophy, music, art, theater, or foreign language

3. Past failures and withdrawals in prerequisite courses or other nursing program courses **will** impact consideration for admission into the KC BSN program. Please contact the admissions office for any questions.
4. Additional qualifiers such as taking prerequisite courses at KC, previous academic degrees, and degrees in allied health may influence acceptance.
5. Students accepted into the program must maintain all admission requirements from the time of acceptance until their program start date.
6. Students admitted into the program must complete all required prerequisite courses with a C or better before year 2, semester 4.

DIRECT ADMISSION OPPORTUNITY

An opportunity for direct admission into the BSN prelicensure degree track exists for high school students who apply with one of the following criteria:

- Minimum high school GPA of 3.5
- Minimum ACT score of 21 or SAT score of 1070
- Minimum GPA 3.2 with completion of 2 college level courses equivalent to courses from the pre-licensure BSN prerequisite list with a minimum grade of B or above
- Students who receive direct enrollment will receive a letter from the KC Admissions Department and the KC Nursing Division. Students will be notified of the criteria below that must be met to maintain direct enrollment status.
- Completion of all prerequisite nursing courses at Kettering College with a grade of "C" or better in each course
- Have not repeated or withdrawn from more than 1 prerequisite nursing course (withdrawals include grades of "W", "WP", and "WF")
- Maintenance of a 2.8 GPA in prerequisite nursing courses through time of direct admission
- Maintenance of a 2.8 GPA in prerequisite science courses through time of direct admission

Students who do not meet/maintain qualifications for direct enrollment will lose placement in the nursing degree track and may apply through normal application procedures associated with the BSN prelicensure program degree tracks. Note: Previous nursing course failures disqualify students from direct enrollment option.

NURSING PROGRAM TRANSFER APPLICANTS

Transfer students who have completed nursing courses in other programs will be evaluated individually for admission and placement and may be accepted on a space-available basis. Students with nursing failures and/or

program-required course failures from other programs may be ineligible for transfer credit and/or program admission. Transfer students should submit application materials by the posted deadline in order to give time for transcripts to be evaluated for transferable credit.

A plan for success will be developed for each transfer student. This plan may include but not be limited to skills remediation, testing remediation, and auditing of previous nursing courses as determined by the Division of Nursing. General College policies on tuition and fees for remediation of courses will apply.

ENROLLMENT

Students accepted into the nursing program must meet the requirements defined below.

1. **Cardiopulmonary resuscitation (CPR)/ basic life support (BLS):** All nursing students must be certified in basic life support, also known as cardiopulmonary resuscitation, issued by the American Heart Association or the American Red Cross in the BLS for the Healthcare Provider course. Students must complete this certification course at Kettering College during the time period designated by the nursing program. Upon acceptance to the nursing program, students will receive further information regarding BLS certification. If an admitted student already has American Heart Association or American Red Cross BLS for the Healthcare Provider certification and does not wish to recertify at the time of admission, the student must sign an informational waiver taking responsibility for keeping BLS certification current throughout enrollment in the program.
2. **Background check and fingerprinting:** Students must request and pay to have a criminal background check and fingerprinting performed by a Kettering College approved service no more than six months prior to the first nursing course or the semester of entry for transfer students. The Ohio Board of Nursing or any state's Board of Nursing may deny testing or licensure to individuals based on results of their background check and fingerprinting report. Background check results must be received at least one week prior to the start of the first semester of nursing courses.
3. **Health requirements:** Students must show documentation of compliance with all health requirements at least one week prior to the start of the first semester of nursing courses.
4. **Computer proficiency:** All students accepted into the nursing program are expected to be proficient in computer skills required for document preparation, Internet usage, and emailing.
5. **Technical standards:** Applicants must meet certain physical and health requirements defined as technical standards. The standards are described on the College website and in the *Student Handbook*. If a student has known disabilities in any area, he or she will be required to inform the College of these limitations prior to the start of the program, and a determination will be made regarding his or her eligibility.

PROGRESSION

To progress in the program, students must:

- Achieve a minimum grade of C in all courses required for the BSN degree.
- Maintain health requirements and current immunization status.
- Maintain clearance of background check.
- Complete all non-nursing courses as outlined in the program of study.

IN PROGRESS GRADE OR LEAVE OF ABSENCE STATUS

Students receiving a grade of “in progress” or taking a leave of absence must communicate their intent for resuming coursework in the nursing program to their academic advisor or program chair according to the readmission deadlines outlined below. Remediation will be required for students who have been out of the nursing program for two semesters or longer. A plan of success will be developed on an individual basis. This plan may include but not be limited to skills remediation, testing remediation, and auditing of previous nursing courses as determined by the Division of Nursing. General College policies on tuition and fees for remediation of courses will apply.

READMISSION

Students who do not meet progression requirements are removed from the nursing program; if eligible, they may apply for readmission. Selection for readmission is competitive.

READMISSION DEADLINES

- A student failing any nursing course is expected to submit an application for readmission within five days after the semester in which progression is interrupted.
- A student with a grade of IP (in progress) or leave of absence status is expected to submit an application for readmission at least one semester prior to desired re-entry to the program.

READMISSION CRITERIA

1. Students who are readmitted enter under the curriculum, program policies, and *Academic Bulletin* offered the semester of re-entry into the program. Students must meet all nursing enrollment criteria.
2. Requests for readmission will be evaluated individually. The decision to readmit a student is based on the following criteria:
 - Review and evaluation of student’s academic and clinical performance at the time of withdrawal or dismissal.
 - Minimum Kettering College cumulative GPA of 2.6 (a higher GPA may be needed to be competitive).

- Calculation of readmission GPA will not include the failing letter grade of the last nursing course where the student was not successful.
 - Available space in the nursing program.
 - Evaluation of the student's standing, relative to any revisions that may have occurred in the curriculum, courses, or requirements.
3. Remediation will be required for students who have been out of the nursing program for two semesters or longer. A plan of success will be developed on an individual basis. This plan may include but not be limited to skills remediation, testing remediation, and auditing of previous nursing courses as determined by the Division of Nursing. General College policies on tuition and fees for remediation of courses will apply.
 4. Students are not eligible for readmission if either of two circumstances applies:
 - Failure of NRSB 315 Foundations of Nursing
 - Failure in two nursing courses. During the WP/WF drop period, students earning a grade of C- or lower, or failing the clinical experience, will receive a WF grade. A grade of WF is equivalent to a failure.

GRADUATION

To graduate with a Bachelor of Science in Nursing degree, the student must have a minimum cumulative GPA of 2.00 on a 4.00 scale, as well as a minimum GPA of 2.00 on a 4.00 scale in nursing courses.

PROGRAM OF STUDY FOR FULL-TIME PRELICENSURE BSN TRACK (FALL COHORT)

In order to better balance the pre-requisite class sizes (Year 1), this cohort will be divided into two tracks – Track A and Track B. Students in both tracks take the same series of pre-requisite courses over the first three terms, but will do so in a different sequence. See below.

TRACK A YEAR 1, SEMESTER 1 FALL (FULL-TIME FALL COHORT)

BIOL 119	Human Anatomy and Physiology I	4
ENGL 101	Writing and Rhetoric I	3
MATH 105	Fundamentals of Mathematics	3
PSYC 112	General Psychology	3

TOTAL	13
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TRACK A YEAR 1, SEMESTER 2 WINTER (FULL-TIME FALL COHORT)

BIOL 129	Human Anatomy and Physiology II	4
CHEM 105	Chemistry for Health Sciences	4
ENGL 102	Writing and Rhetoric II	3
KETC 101	Medical Terminology	1
MATH 201	Probability and Statistics	3
TOTAL		15

TRACK A YEAR 1, SEMESTER 3 SUMMER (FULL-TIME FALL COHORT)

BIOL 151	Microbiology	4
HUMN	Humanities elective (literature, history, philosophy, music, art, theater, or foreign language)	3
PSYC 138	Human Growth and Development	3
SOCI 115	Principles of Sociology	3
TOTAL		13

TRACK B YEAR 1, SEMESTER 1 FALL (FULL-TIME FALL COHORT)

CHEM 105	Chemistry for Health Sciences	4
MATH 105	Fundamentals of Mathematics	3
ENGL 101	Writing and Rhetoric I	3
PSYC 112	General Psychology	3
TOTAL		13

TRACK B YEAR 1, SEMESTER 2 WINTER (FULL-TIME FALL COHORT)

BIOL 119	Human Anatomy and Physiology I	4
BIOL 151	Microbiology	4
MATH 201	Probability and Statistics	3
ENGL 102	Writing and Rhetoric II	3
KETC 101	Medical Terminology	1
TOTAL		15

TRACK B YEAR 1, SEMESTER 3 SUMMER (FULL-TIME FALL COHORT)

BIOL 129	Human Anatomy and Physiology II	4
HUMN	Humanities elective (literature, history, philosophy, music, art, theater, or foreign language)	3
PSYC 138	Human Growth and Development	3
SOCI 115	Principles of Sociology	3
TOTAL		13

YEAR 2, SEMESTER 4 (FULL-TIME FALL COHORT)

BIOL 350	Pathophysiology	3
NRSB 305	Pharmacology in Nursing	3
NRSB 315	Foundations of Nursing	6
RELB 101	Seventh-day Adventist Fundamental Beliefs and the Healing Ministry of Christ	3
TOTAL		15

YEAR 2, SEMESTER 5 (FULL-TIME FALL COHORT)

COMM 215	Introduction to Human Communication	3
NRSB 301	Wellness and Health Promotion	3
NRSB 325	Medical Surgical Nursing 1	6
RELX	Religion elective	3
TOTAL		15

YEAR 2, SEMESTER 6 (FULL-TIME FALL COHORT)

NRSB 335	Medical Surgical Nursing 2	8
NRSB 355	Population Health Concepts	4
TOTAL		12

YEAR 3, SEMESTER 7 (FULL-TIME FALL COHORT)

NRSB 331	Psychiatric/Mental Health Nursing Concepts	4
NRSB 341	Family Nursing Concepts	6
NRSB 371	Nursing Research	3
RELP 316	Spirituality in Healing and Health Care	3
TOTAL		16

YEAR 3, SEMESTER 8 (FULL-TIME FALL COHORT)

HUMN	Humanities elective (literature, history, philosophy, music, art, theater, or foreign language)	3
NRSB 405	Medical Surgical Nursing 3	9
NRSB 411	Essentials of Nursing Leadership, Management, and Informatics	3
TOTAL		15

YEAR 3, SEMESTER 9 (FULL-TIME FALL COHORT)

NRSB 425	Capstone Nursing Experience	5
NRSB 435	NCLEX-RN Success Strategies	3
RELP 306	Spiritual Dimensions of Death and Dying	3
TOTAL		11

PROGRAM OF STUDY FOR FULL-TIME PRELICENSURE BSN TRACK (WINTER COHORT)**YEAR 1, SEMESTER 1 WINTER (FULL-TIME WINTER COHORT)**

BIOL 119	Human Anatomy and Physiology I	4
BIOL 151	Microbiology	4
ENGL 101	Writing and Rhetoric I	3
MATH 105	Fundamentals of Mathematics	3
TOTAL		14

YEAR 1, SEMESTER 2 SUMMER (FULL-TIME WINTER COHORT)

BIOL 129	Human Anatomy and Physiology II	4
ENGL 102	Writing and Rhetoric II	3
HUMN	Humanities elective (literature, history, philosophy, music, art, theater, or foreign language)	3
PSYC 112	General Psychology	3
TOTAL		13

YEAR 1, SEMESTER 3 FALL (FULL-TIME WINTER COHORT)

CHEM 105	Chemistry for Health Sciences	4
KETC 101	Medical Terminology	1
MATH 201	Probability and Statistics	3
PSYC 138	Human Growth and Development	3
SOCI 115	Principles of Sociology	3

TOTAL	14
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YEAR 2, SEMESTER 4 (FULL-TIME WINTER COHORT)

BIOL 350	Pathophysiology	3
NRSB 305	Pharmacology in Nursing	3
NRSB 315	Foundations of Nursing	6
RELB 101	Seventh-day Adventist Fundamental Beliefs and the Healing Ministry of Christ	3
TOTAL		15

YEAR 2, SEMESTER 5 (FULL-TIME WINTER COHORT)

COMM 215	Introduction to Human Communication	3
NRSB 301	Wellness and Health Promotion	3
NRSB 325	Medical Surgical Nursing 1	6
RELX	Religion elective	3
TOTAL		15

YEAR 2, SEMESTER 6 (FULL-TIME WINTER COHORT)

NRSB 335	Medical Surgical Nursing 2	8
NRSB 355	Population Health Concepts	4
TOTAL		12

YEAR 3, SEMESTER 7 (FULL-TIME WINTER COHORT)

NRSB 331	Psychiatric/Mental Health Nursing Concepts	4
NRSB 341	Family Nursing Concepts	6
NRSB 371	Nursing Research	3
RELP 316	Spirituality in Healing & Health Care	3
TOTAL		16

YEAR 3, SEMESTER 8 (FULL-TIME WINTER COHORT)

HUMN	Humanities elective (literature, history, philosophy, music, art, theater, or foreign language)	3
NRSB 405	Medical Surgical Nursing 3	9
NRSB 411	Essentials of Nursing Leadership, Management, and Informatics	3
TOTAL		15

YEAR 3, SEMESTER 9 (FULL-TIME WINTER COHORT)

NRSB 425	Capstone Nursing Experience	5
NRSB 435	NCLEX-RN Success Strategies	3
RELP 306	Spiritual Dimensions of Death and Dying	3
TOTAL		11

PROGRAM OF STUDY FOR PART-TIME PRELICENSURE BSN TRACK (FALL COHORT)**YEAR 1, SEMESTER 1 (PART-TIME FALL COHORT)**

ENGL 101	Writing and Rhetoric I	3
MATH 105	Fundamentals of Mathematics	3
	TOTAL	6

YEAR 1, SEMESTER 2 (PART-TIME FALL COHORT)

CHEM 105	Chemistry for Health Sciences	4
COMM 215	Introduction to Human Communication	3
ENGL 102	Writing and Rhetoric II	3
KETC 101	Medical Terminology	1
	TOTAL	11

YEAR 1, SEMESTER 3 (PART-TIME FALL COHORT)

HUMN	Humanities elective (literature, history, philosophy, music, art, theater, or foreign language)	3
SOCI 115	Principles of Sociology	3
	TOTAL	6

YEAR 2, SEMESTER 4 (PART-TIME FALL COHORT)

BIOL 119	Human Anatomy and Physiology I	4
PSYC 112	General Psychology	3
	TOTAL	7

YEAR 2, SEMESTER 5 (PART-TIME FALL COHORT)

BIOL 129	Human Anatomy and Physiology II	4
HUMN	Humanities elective (literature, history, philosophy, music, art, theater, or foreign language)	3
MATH 201	Probability and Statistics	3
	TOTAL	10

YEAR 2, SEMESTER 6 (PART-TIME FALL COHORT)

BIOL 151	Microbiology	4
PSYC 138	Human Growth and Development	3
	TOTAL	7

YEAR 3, SEMESTER 7 (PART-TIME FALL COHORT)

BIOL 350	Pathophysiology	3
NRSB 301	Wellness and Health Promotion	3
NRSB 305	Pharmacology in Nursing	3
	TOTAL	9

YEAR 3, SEMESTER 8 (PART-TIME FALL COHORT)

NRSB 315	Foundations of Nursing	6
RELB 101	Seventh-day Adventist Fundamental Beliefs and the Healing Ministry of Christ	3
	TOTAL	9

YEAR 3, SEMESTER 9 (PART-TIME FALL COHORT)

NRSB 325	Medical Surgical Nursing 1	6
RELX	Religion elective	3
	TOTAL	9

YEAR 4, SEMESTER 10 (PART-TIME FALL COHORT)

NRSB 335	Medical Surgical Nursing 2	8
NRSB 355	Population Health Concepts	4
	TOTAL	12

YEAR 4, SEMESTER 11 (PART-TIME FALL COHORT)

NRSB 371	Nursing Research	3
NRSB 411	Essentials of Nursing Leadership, Management, and Informatics	3
	TOTAL	6

YEAR 4, SEMESTER 12 (PART-TIME FALL COHORT)

NRSB 331	Psychiatric/Mental Health Nursing Concepts	4
RELP 306	Spiritual Dimensions of Death and Dying	3
	TOTAL	7

YEAR 5, SEMESTER 13 (PART-TIME FALL COHORT)

NRSB 341	Family Nursing Concepts	6
RELP 316	Spirituality in Healing and Health Care	3
	TOTAL	9

YEAR 5, SEMESTER 14 (PART-TIME FALL COHORT)

NRSB 405	Medical Surgical Nursing 3	9
	TOTAL	9

YEAR 5, SEMESTER 15 (PART-TIME FALL COHORT)

NRSB 425	Capstone Nursing Experience	5
NRSB 435	NCLEX-RN Success Strategies	3
	TOTAL	8

Graduate Program: Master of Physician Assistant Studies

DEPARTMENT PERSONNEL

Program Director: Tim Scanlon, PA-C, MSPA

Medical Director/Clinical Director: Scott Gardner, MD

Academic Coordinator: Jill Gulczinski, PA-C, MSPA

Program faculty:

Megan Bonk, PA-C, MPAS; Ronald Bowers, PA-C, DHSc; Sarah Brandell, PA-C, MPAS; Elizabeth Diem, PA-C, MPAS; Christine Marriott, PA-C, MPAS; Vanessa Rogers, PA-C, MPAS; Pamela Wireman-Keller, PA-C, MPAS

Program staff:

Lona Blake, Clinical Coordinator; Mary Guzman, Admissions Coordinator; Valerie Pequignot, Office Assistant

STATEMENT OF PURPOSE

The mission of the Kettering College physician assistant studies program is to provide, in a Christian environment, the academic and clinical experience necessary to develop competent empathetic professional healthcare providers who are dedicated to lifelong learning.

DEGREE DESCRIPTION

The MPAS degree is a clinically based program that provides the academic and clinical education necessary to become competent practicing physician assistants.

VISION FOR THE PA PROGRAM

The physician assistant course of study will produce outstanding new physician assistants. Using innovative learning methods and a commitment to mentor and empower students, Kettering College educates its PA students to exhibit the highest standards of intellectual, ethical, and spiritual maturity. They exemplify professional excellence and leadership in meeting the challenges of the profession in an evolving healthcare environment.

CREDITS AND RESIDENCY REQUIREMENTS

The MPAS degree requires a minimum of 98 graduate-level credits for graduation. All physician assistant (PHAS) courses must be taken at Kettering College.

DESCRIPTION OF THE PHYSICIAN ASSISTANT PROFESSION

The Standards and Guidelines for an Accredited Educational Program for the Physician Assistant provides the following description of the profession:

The physician assistant is academically and clinically prepared to provide healthcare services with the direction and responsible supervision of a doctor of medicine or osteopathy. Within the physician/physician assistant relationship, they make clinical decisions and provide a broad range of diagnostic, therapeutic, preventive, and health maintenance services. Their clinical role includes primary and specialty care in medical and surgical practice settings. Physician assistant practice is centered on patient care and may include educational, research, and administrative activities.

The role of the physician assistant demands intelligence, sound judgment, intellectual honesty, appropriate interpersonal skills, and the capacity to react to emergencies in a calm and reasoned manner. An attitude of respect for self and others, adherence to the concepts of privilege and confidentiality in communicating with patients, and a commitment to the patient's welfare are essential attributes. The tasks performed by individual physician assistants cannot be delineated precisely because of the variations in practice requirements mandated by geographic, political, economic, and social factors. At a minimum, however, physician assistants are educated in areas of basic medical science, clinical disciplines, and discipline-specific problem solving. Physician assistant practice is characterized by clinical knowledge and skills in areas traditionally defined by family medicine, internal medicine, pediatrics, obstetrics, gynecology, surgery, and psychiatry/behavioral medicine. Physician assistants practice in ambulatory emergency, inpatient, and long-term care settings. Physician assistants deliver healthcare services to diverse patient populations of all ages with a range of acute and chronic medical and surgical conditions. They need knowledge and skills that allow them to function effectively in a dynamic healthcare environment.

KETTERING COLLEGE PA GRADUATE COMPETENCIES

The PA program has determined that proficiency in the following competencies are prerequisite for graduation from the program:

Patient-Centered Medical Knowledge

1. Demonstrate adequate medical knowledge across the age and body system spectrum.
2. Make an appropriate referral and/or follow up of patients.
3. Incorporate understanding of medical science when determining disease etiology.
4. Utilize critical thinking skills to provide patient care.
5. Correctly order and interpret diagnostic tests.
6. Initiate appropriate interventions for preventable conditions.
7. Utilize screening recommendations for disease prevention.

8. Create an appropriate differential diagnosis.
9. Appropriately manage patients according to evidence-based guidelines.
10. Recognize the indications for principal therapeutic interventions

Interpersonal and Communications Skills

1. Appropriately document information regarding patient care.
2. Demonstrate professional composure.
3. Use effective listening and nonverbal communication skills to effectively communicate with others.

Patient-Centered Clinical Care

1. Elicit an accurate patient history.
2. Effectively perform a physical exam.
3. Demonstrate caring and respectful behaviors when interacting with patients and their families.
4. Communicate effectively so that patients can understand the information being conveyed to them.
5. Competently perform medical and surgical procedures considered essential in the area of primary care.

Professional and Legal Aspects of Health Care

1. Evaluate the impact of legal and regulatory requirements of the practice of medicine.
2. Demonstrate an adequate fund of knowledge regarding the ethical principles pertaining to provision of or withholding of clinical care.
3. Exemplify professional behavior as expected of a PA
4. Address personal strengths and weaknesses appropriately.

Healthcare Finance and Systems

1. Describe the funding sources and payment systems that provide coverage for patient care.
2. Summarize the larger context and systems of healthcare.
3. Appraise the resources within the system that aid in providing optimal quality health care.

ACCREDITATION/PROFESSIONAL ASSOCIATION

The physician assistant program at Kettering College is accredited through the Accreditation Review Commission on Education for the Physician Assistant and the Higher Learning Commission. The physician assistant program is also an active member of the Physician Assistant Education Association (PAEA).

CERTIFICATION

Successful completion of the program leads to a Master of Physician Assistant Studies (MPAS). Graduates are eligible for the examination administered by the National Commission on Certification of Physician Assistants (NCCPA). Certification is a requirement for registration/licensure to practice in all states.

APPLICATION PROCESS

Applicants who are not pre-PA students at Kettering College or enrolled in the Bachelor of Science human biology major “3+2”-year MPAS accelerated curriculum must apply through Central Application Service for Physician Assistants (CASPA) at www.caspaonline.org. Applications must be officially submitted to CASPA no later than Oct. 1 of the year prior to matriculation.

All Kettering College students wishing to apply to the PA program must complete the MPAS application, which is available from the PA admissions coordinator. Applications are due in the PA office no later than Oct. 1 of the year prior to matriculation. For those Kettering College students considering the accelerated curriculum, please refer to the program of study for the human biology major.

International medical graduates: Applications are accepted from international medical graduates (IMGs). The following is important information pertinent to the IMG:

- Advanced placement is not offered for IMGs; all PA students must complete the entire curriculum.
- IMGs must meet all prerequisite coursework.
- International transcripts will need to be evaluated by a service to establish equivalencies to U.S. university courses and grades. Evaluations are currently accepted from:

World Education Services: www.wes.org (preferred)

Josef Silny & Associates Inc.: www.jsilny.com/html/foreign.htm

- Applicants who are not permanent residents should refer to the admission section of the undergraduate *Bulletin* for information for international students.
- IMG applicants who have completed the USMLE Step 1 must submit a copy of their Score Report and USMLE Step 1 Performance Profile to the PA admissions coordinator.
- The role of a PA is a dependent practitioner under the supervision of a physician. IMGs who have worked as physicians in other countries may have difficulty accepting this role change.

For all students, the application process is structured on a two-tiered system composed of a pre-interview selection process and selection for admission to the program.

- A. Pre-interview process: Interviews are conducted from September through December. The following qualifications must be met in order to be considered for the interview process:
1. Only completed applications will be considered.
 2. Applicant must have taken the Physician Assistant College Admission Test (PA-CAT).
 3. Transcripts must reflect a cumulative GPA of 3.00 for all prerequisite courses with no grade lower than a C.

Selection for the interview is based on the following:

- Completion and nature of the degree:
 - Completion of a bachelor's degree and prerequisite courses from a regionally accredited institution OR enrollment in the BS degree, human biology major
 - Nature of the degree (BA, BS, MS, PhD, etc.)
 - GPA analysis of complete academic history:
 - Prerequisite courses as listed below
 - Cumulative college GPA
 - Any grades of C and/or below on college transcript
4. **Prerequisite courses:** Completion of prerequisite courses/degree must be at a regionally accredited college or university. Prerequisite courses may be in process at the time of application; however, applicants must have completed at least 18 credits total with 12 of the natural science courses and 6 in the other courses.
5. **Natural sciences prerequisites** (all must include lab component except biochemistry):

General biology	4 semester credits
Organic chemistry (full sequence)	8 semester credits
Biochemistry (lab preferred)	4 semester credits
Human anatomy and physiology (full sequence)	8 semester credits
Microbiology	4 semester credits

TOTAL 28 semester credits

Note: Natural science courses need to have been taken within 10 years of date of application; if older than 10 years, please consult the PA admission coordinator.

Other prerequisites:

Psychology	3 semester credits
Developmental OR abnormal psychology	3 semester credits
Statistics	3 semester credits

TOTAL 9 semester credits

6. **Verification of prerequisite course completion:** Students must complete any outstanding prerequisite courses prior to the beginning of the summer semester with submission of the course grades to the admissions office prior to the end of the first summer semester of the PA program. Official transcripts need

to be submitted to admissions to demonstrate completion of outstanding classes. Students will be blocked from registering for fall classes until completion of outstanding prerequisite courses is verified.

7. **Quality and quantity of healthcare hours:** Applicants will be rated on both the type of healthcare hours and the number of completed experiential hours at the time of application. It is highly recommended that applicants complete at least 1,000 hours, which could be obtained in, but not limited to the following roles: STNA, CNA, EMT or paramedic, lab tech/phlebotomist, medical scribe, EKG technician, surgical technician, pharmacy technician, respiratory care practitioner, radiological technologist, medical mission worker. It is also highly recommended that the applicant gain some exposure to the PA profession by shadowing a PA.
8. **Evaluation of recommendation letters:** Applicants will need to submit three letters of reference (to CASPA or directly to the PA department if a current Kettering College student). Letters must be written no more than 12 months prior to the application deadline. No more than one letter should be from a professor; one should be from a healthcare professional if possible.
9. **Bonus consideration** will be awarded to those students taking at least 7 semester credits at Kettering College.

B. Selection is based upon the results of the pre-interview process evaluation and the interview.

- Evaluation of communication skills: Applicants must demonstrate strong written and oral communication skills.
- Written communication skills will be determined from an essay to be completed at the time of the interview.
- Oral skills will be determined during the interview process.
- Documented plans for completion of any outstanding prerequisite courses (if applicable).
- Results from an online computer-based assessment for non-cognitive skills and interpersonal characteristics (CASPer).

The PA admission committee selects and recommends applicants for admission to the PA program; this roster is shared with the College admission office for final acceptance.

ADMISSION PROCESS

Applicants will be notified by both the PA admission coordinator and the College admission director regarding their selection for admission to the PA program approximately three to four weeks following the interview process. Final selections will be made no later than Feb. 1. Each applicant has 10 business days to submit a \$500 nonrefundable deposit to secure a seat in the program.

All applicants must meet all other requirements for admission to Kettering College.

Pre-enrollment notes:

- Admitted students must have current CPR certification completed prior to the beginning of the first fall semester of the program.
- A criminal background check is required prior to beginning clinical rotations.

- A felony or misdemeanor conviction may result in denial to participate in clinical rotations and/or rejection by professional certification agencies and state licensure boards. Please contact program officials for details.
- Students must be able to perform the technical standards of Kettering College and the PA program. The standards will be distributed to each applicant selected for an interview; if accepted, the student must sign a statement affirming that he or she has read, understood, and is able to comply. Technical standards refer to the physical, cognitive, and behavioral abilities required for satisfactory completion of the curriculum; they include motor, sensory, communicative, intellectual, behavioral, and social aspects.

Kettering College technical standards:

- a. Think critically with sound judgment, emotional stability, maturity, empathy, and physical and mental stamina.
- b. Learn and function in a variety of didactic and clinical settings.
- c. Communicate effectively, both verbally and in writing, using appropriate grammar, spelling, and vocabulary.
- d. Immediately comprehend and respond to auditory instructions or requests.
- e. Think clearly and act calmly in stressful situations.
- f. Perform a clinical experience up to 12 hours long in a single 24-hour period.
- g. Work cooperatively, preserving relationships with others on the healthcare team.
- h. Perform fine and gross motor skills with both hands.
- i. Apply adequate pressure to stop bleeding.
- j. Perform cardiopulmonary resuscitation (CPR).

Technical standards for graduate students in the PA program at Kettering College: The mission of the Kettering College PA program is to provide, in a Christian environment, the academic and clinical experience necessary to develop competent, empathetic professional healthcare providers who are dedicated to lifelong learning. In order to become a competent PA healthcare provider, the student, in addition to meeting academic and other entry requirements, must be able to demonstrate skills in the areas described below:

- a. **Observation/sensation:** Students must be able to acquire information in all didactic and clinical settings through sources including but not limited to oral presentation, written material, visual media, and live presentations/demonstrations. Students must possess function of visual, tactile, and auditory senses in order to perform necessary skills for physical examination.

- b. **Communication:** Students must be able to effectively communicate, both verbally and in writing, at a level consistent with graduate-level work, using proper English grammar, spelling, and vocabulary, which is needed both for patient evaluation and documentation. Additionally, students must communicate in a professional manner to all patients and their families, peers, and other members of a healthcare team.
- c. **Intellectual-conceptual abilities:** Students must be able to think critically, with sound judgment, in order to understand, assess, and solve clinical problems. This includes the ability to collect, organize, prioritize, reason, analyze, integrate, learn, and retain information, often in a limited time frame. Students must also be able to comprehend two- and three-dimensional structures and understand spatial relationships.
- d. **Motor functions:** Students must possess the motor skills to perform physical examinations, maneuver instruments or diagnostic tools, and perform medical procedures. Students must have the physical capability, strength, and stamina to sit, stand, and move in classroom, laboratory, and clinical areas for long periods of time.
- e. **Behavioral/social aspects:** Students must demonstrate psychological and emotional stability at a level necessary to deliver sound patient care in all settings and to interact with interdisciplinary healthcare teams. Students must be able to tolerate physical, emotional, and intellectual stress during the educational period while responding appropriately and professionally and tolerate physically taxing workloads.

Note: Applicants whose responses indicate that they cannot meet the expectations will be further reviewed by the admissions committee to assess the extent of difficulty and the potential for compensating for such difficulty. The College is committed to providing reasonable accommodation to individuals with disabling conditions.

PROGRAM COSTS

Please refer to the tuition and fee schedule on the Kettering College website (www.kc.edu) for details. PA students are required to have an electronic tablet (e.g., iPad) or a laptop computer as well as medical equipment. Medical equipment costs are included in lab fees. Incoming students are required to register with CastleBranch (<https://discover.castlebranch.com>) to complete an initial background check. Upon registration with CastleBranch, instructions and details will be made available. Students are responsible for uploading the required documentation and for any costs related to CastleBranch services. PA students are also responsible for AAPA and OAPA student membership fees as well as ACLS training fees. A complete breakdown of all costs related to the program is available at <http://kc.edu/academics/physician-assistant/cost/>.

PA PROGRESSION REQUIREMENTS

To progress in the physician assistant program, a student will:

- Continue to demonstrate professional and ethical behavior.
- Meet the standards for progression in each PHAS course. Each course syllabus delineates specific requirements as set by the department. All clinical medicine modules (CMM) have specific progression requirements; these are outlined in the student manual.
- Maintain a GPA of 3.00 in each term. Students with a term GPA below 3.00 will be placed on academic probation. Failure to achieve a 3.00 in any future semester will result in dismissal from the program. **Note about academic probation:** Only students meeting the progression requirements will be candidates for academic probation.
- Maintain compliance with technical standards.

CONDITIONS FOR DISMISSAL

A student will be dismissed from the PA program for:

- Failing to meet progression requirements.
- Earning a failing grade in two different clinical courses or the same clinical course twice.
- Earning a GPA lower than 3.00 during the academic probation term.
- Breaching professional ethics or exhibiting any behavior that might pose a threat to the student or others.

Students dismissed under the first three criteria may reapply. Those dismissed for ethical or behavioral issues forfeit the ability to reapply.

READMISSION CRITERIA

- A student wishing to reapply to the MPAS program must submit a readmission form to the director of admissions and records.
- A student may not enroll more than twice in any course.
- A grade of W does not apply.
- A grade of WP or WF counts as enrollment in a course.
- Students will be readmitted under the current academic year's *Bulletin*, curriculum, and policies. The decision for readmission will be based upon:
 - a. Available space in the program.
 - b. Review and evaluation of the student's standing relative to any revisions that may have occurred in the program.
 - c. Review and evaluation of academic and clinical performance.
 - d. Submission of evidence demonstrating potential for academic success.

GRADUATION REQUIREMENTS FOR MPAS DEGREE

- Satisfactorily complete all clinical rotations.
- Complete didactic and clinical courses as outlined in program of study.
- Successfully complete the summative evaluation for program competencies.
- Complete all other College requirements for graduation.

PROGRAM OF STUDY FOR MPAS: TRANSITION YEAR INTEGRATED SYSTEMS-BASED CURRICULUM

NOTE: To progress from summer to fall semester, official record of degree and/or prerequisite requirements must be documented in the admissions office prior to the end of the summer semester.

SUMMER I

PHAS 500	Introduction to the PA Profession	1
PHAS 502	Patient Interviewing and Documentation	2
PHAS 532	Introduction to Pathophysiology and Pharmacology	3
PHAS 512	CMM Dermatology	1
PHAS 570	CMM Hematology and Oncology	2
PHAS 551	Behavioral Medicine	2
PHAS 553	Clinical Genetics	2
RELP 507	Clinical Ethics I	1

TOTAL	14
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FALL II

PHAS 508	Evidence-Based Medicine	1
PHAS 571	CMM Infectious Disease	2
PHAS 516	CMM ENT	3
PHAS 522	CMM Endocrinology	3
PHAS 529	CMM Nephrology	3
PHAS 517	CMM Cardiovascular Medicine	9

TOTAL	21
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WINTER III

PHAS 518	CMM Pulmonology	5
PHAS 526	CMM Gastroenterology	6
PHAS 533	CMM Musculoskeletal Medicine	5
PHAS 534	CMM Neurology	6

TOTAL	22
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SUMMER IV

PHAS 561	Pediatrics	2
PHAS 574	Women's Health	3
PHAS 566	Surgical and Emergency Care	3
PHAS 567	Integration of Clinical Medicine Seminar	1
RELP 508	Clinical Ethics II	1
RELP 601	Applied Spiritual Care I	1

TOTAL	11
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FALL V

PHAS 632	Health Policy and PA Professional Practice I	0.5
RELP 602	Applied Spiritual Care II	1
PHAS 642-644	Clinical Rotations	9
PHAS 637	Capstone Prep I	1

TOTAL	11.5
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WINTER VI

PHAS 633	Health Policy and PA Professional Practice II	0.5
PHAS 638	Capstone Prep II	1
PHAS 615	Objective Structured Clinical Examination	1
PHAS 645-647	Clinical Rotations	9

TOTAL	11.5
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SUMMER VI

PHAS 648-649	Clinical Rotations	6
PHAS 641	Capstone Project	1

TOTAL	7
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TOTAL CREDITS FOR THE PROGRAM	98 (101)
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Revised Course Descriptions

BIO 420 Topics in Biology

1-4 credits

Study of one the traditional areas of the biological sciences or any of a variety of field-oriented courses. Lectures, laboratory times, and prerequisites will vary according to the topic offered.

Prerequisite: BIO 315 with a minimum grade of C; for human biology majors only or by permission of department chair

BIO 425 Endocrinology

3 credits

Basic concepts and principles of hormone synthesis, metabolism, actions and mechanisms. An introduction to hormone associated disorders, will also be covered. This course relates the principles of endocrinology to contemporary issues such as diet, weight loss and obesity, depression, aging, sexuality, diabetes and drugs. Lectures, discussions of published manuscripts, and oral presentations will demonstrate the direct relationship of biology to everyday life. This course also enhances the student's ability to communicate (oral and written) effectively, analyze scholarly published manuscripts, and think critically.

Prerequisites: BIO 315 with minimum grade of C; for human biology majors only or by permission of department chair

CHEM 105 Chemistry for Health Sciences

4 credits

Introduction to inorganic, organic, and biological chemistry with emphasis given to chemical principles applied to cellular biochemistry and human physiology. Designed for students preparing for health sciences careers, not majoring in chemistry, by establishing the chemical foundations for physiology, nutrition, microbiology, and pharmacology. Three hours of lecture and three hours of laboratory weekly.

Students are highly encouraged to take MATH 105 (or equivalent) before, or with, this course in order to be best prepared for success in the math component.

PHAS 632 Health Policy and PA Professional Practice I **0.5 credit**

Explores various professional topics that affect practicing physician assistants including laws and regulations that govern practice and current practice trends. The course covers cultural competence and access to healthcare across diverse populations. Other topics include billing and coding and preparation for job search with emphasis on resume writing and interviewing techniques.

PHAS 633 Health Policy and PA Professional Practice II **0.5 credit**

This course is a continuation of PHAS 632 and continues to explore various professional topics that affect practicing physician assistants including further discussion of the laws and regulations that govern practice and current practice trends. This course also includes health policy and public health topics in healthcare and issues of coordination and quality of care, population health and basic disaster preparedness.