

MEDICAL SCIENCE (MMS)

Mission

Our mission is to educate individuals to become compassionate PAs who deliver the highest quality healthcare in a collaborative environment, serve diverse communities, work to eliminate health disparities, and improve overall health outcomes while advancing the PA profession.

Our Values

Compassion

We value the dignity of all people, including patients and their families, and recognize that compassion must be a cornerstone in professional interactions.

Humility

We value the intrinsic worth of all human beings; we acknowledge our own limitations and strive to learn from those we interact with both interpersonally and professionally.

Integrity

We value integrity and professionalism by modeling honesty, thoughtfulness, and consistency in our words and actions.

Lifelong Learning

We value lifelong learning as essential to the practice of evidence-based medical care.

Excellence

We value the pursuit of excellence as an essential component of professional practice.

Respect

We place a high value on respecting others by acknowledging diversity and advocating for inclusion in communities where we serve, work, and teach.

Service

We are committed to the welfare of others, improving healthcare access, and promoting positive health outcomes through service.

Program Overview

Marshall B. Ketchum University provides the highest quality PA education through excellence in teaching, patient care, research, and public service.

The College of Health Sciences' School of Physician Assistant Studies offers a 27-month, post-baccalaureate program leading to the degree of Master of Medical Science. The class size is 50 students.

The didactic phase of the PA curriculum provides the foundation for clinical practice with instruction in applied medical sciences, patient assessment, clinical medicine, and pharmacotherapeutics. The curriculum is organized into systems-based modules that incorporate anatomy, physiology, pathophysiology, clinical medicine, clinical skills, patient assessment, diagnostic testing, and pharmacotherapeutics taught in an organized and integrated sequence with a strong emphasis on active learning. Other courses include medical ethics, IDEAs in Healthcare, graduate seminars covering a wide range of professional practice topics, evidence-based practice, and population and public

health. Students will also participate in interprofessional education courses and will experience supervised patient interactions.

The clinical phase of the PA curriculum focuses on direct patient care in various clinics, hospitals, and health centers. The program offers a vast array of clinical opportunities with diverse and challenging patient encounters. In order to graduate from the School of Physician Assistant Studies Master of Medical Science Program, a student must complete and pass each course, clinical rotation, Masters Capstone Project, and multi-faceted summative evaluation.

The Master's Capstone Project involves two components:

1. Students work in small teams to conduct a review of literature and needs analysis in order to identify a population healthcare need. The students then develop and implement a project that addresses the healthcare need.
2. Students develop a scholarly poster and presentation that meets national and/or state conference standards.

Admissions

The School of Physician Assistant Studies (SPAS) is committed to accepting a diverse group of qualified individuals from a variety of backgrounds and experiences in accordance with MBKU's nondiscrimination policy. Each application is reviewed, and the merits are considered individually. Additional consideration is given to applicants with volunteer community service, qualifying science degrees, military experience* (verifiable by DD-214), and applicants in the Pre-Health Professions Linkage programs at Cal State Fullerton, Cal State Long Beach, Cal State Los Angeles, and the EDGE-PA Program at Charles R. Drew University.

We do not accept previous experience or medical training for advanced placement in the Master of Medical Science program. All students are expected to complete all didactic and clinical elements of the program. SPAS does not permit students to matriculate on a part-time basis, nor does the curriculum lend itself to an accelerated learning schedule.

**For applicants' military service to be considered when being reviewed for the SPAS PA program at MBKU, they must have served in the US Armed Forces and must have received an honorable or general discharge under honorable conditions. Veterans of foreign armed forces or veterans who were dishonorably or otherwise discharged under dishonorable conditions from a branch of the US Armed Forces are not eligible for consideration. Medical discharges for those who did not complete their full term of service but were separated due to a medical reason will also be considered.*

Criteria

Technical Standards

PAs must have the knowledge and skills to practice in a variety of clinical situations and render a wide spectrum of care based on the patient's needs. In addition to academic achievements, exam results, and faculty recommendations, PA students must possess the physical, emotional, and behavioral capabilities requisite for the practice of medicine as a PA. In order to successfully complete the PA program, students must demonstrate proficiency in academic and clinical activities with regard to the competencies described below.

Observation

Candidates and PA students must have sufficient sensory capacity to observe in the classroom, the laboratory, the outpatient setting, and at the patient's bedside. Sensory skills adequate to perform a physical examination are required, including functional vision, hearing,

smell, and tactile sensation. All these senses must be adequate to observe a patient's condition and to accurately elicit information through procedures regularly required in a physical examination, such as inspection, auscultation, percussion, and palpation.

Communication

Candidates and PA students must be able to:

- Communicate effectively and sensitively with patients and others in both academic and healthcare settings.
- Speak clearly.
- Communicate effectively and efficiently in oral and written English with faculty and staff, patients, and all members of the health care team. Communication includes not only speech but also reading and writing skills.
- Demonstrate reading skills at a level sufficient to accomplish curricular requirements, provide clinical care for patients, and complete appropriate medical records, documents, and plans according to protocol in a thorough and timely manner.
- Perceive and describe changes in mood, posture, and activity and interpret non-verbal communication signs.

Motor Coordination and Function

Candidates and PA students are required to possess motor skills sufficient to directly perform palpation, percussion, auscultation, and other basic diagnostic procedures; and execute motor movements reasonably required to provide basic medical care and emergency care to patients, including but not limited to:

- Cardiopulmonary resuscitation.
- Administration of intravenous medication.
- Application of pressure to stop hemorrhage.
- Opening of obstructed airways.
- Suturing of simple wounds.
- Performance of simple obstetrical maneuvers.
- Negotiating patient care environments and mobility between settings, such as clinics, classrooms, laboratories, and hospitals.
- Maintaining sufficient physical stamina to complete the rigorous course of didactic and clinical study. Long periods of sitting, standing, or moving are required in classroom, laboratory, and clinical settings.

Intellectual-Conceptual, Integrative, and Quantitative Abilities

These abilities include measurement, calculation, reasoning, analysis, and synthesis. Problem-solving, the critical skill demanded of PAs, requires all of these intellectual abilities. Candidates and PA students must be able to:

- Interpret dimensional relationships and understand the spatial relationships of anatomical structures.
- Search, read, and interpret medical literature.

The ability to incorporate new information from peers, teachers, and the medical literature in formulating diagnoses and plans is essential. To complete the PA program, candidates must be able to demonstrate proficiency in these skills and the ability to use them together in a timely fashion during medical problem-solving and patient care.

Behavioral and Social Attributes

Compassion, integrity, ethical standards, concern for others, interpersonal skills, and motivation are all personal qualities important to providing compassionate and quality patient care.

Candidates and PA students must:

- Demonstrate the maturity and emotional stability required for the full use of their intellectual abilities.
- Accept responsibility for learning, exercising good judgment and promptly completing all responsibilities attendant to the diagnosis and care of patients.
- Understand the legal and ethical aspects of the practice of medicine and function within both the law and ethical standards of the medical profession.
- Interact with patients, their families, and health care personnel in a courteous, professional, and respectful manner.
- Tolerate physically taxing workloads and long work hours, to function effectively under stress and to display flexibility and adaptability to changing environments.
- Contribute to collaborative, constructive learning environments; accept constructive feedback from others; and take personal responsibility for making appropriate positive changes.

It is our experience that a number of individuals with disabilities, as defined by Section 504 of the Rehabilitation Act and the Americans with Disabilities Act, are qualified to study and work as health care professionals and scientists with the use of reasonable accommodations. To be qualified for health sciences programs at MBKU those individuals must be able to meet both our academic standards and the technical standards, with reasonable accommodations if necessary.

For further information regarding services and resources for students with disabilities and/or to request accommodations, please contact University Student Affairs.

Prerequisites

We recommend that applicants possess a minimum GPA as follows:

- Overall GPA of 3.0
- Science GPA of 3.0

Degree Prerequisite

A baccalaureate degree from a regionally accredited college or university, or an equivalent institution as determined by MBKU, is required for admission.

Applicants educated outside the U.S. must utilize a transcript evaluation service to verify their degree and coursework. The academic record must show credits and grades equivalent to those given by U.S. institutions of higher learning. If the degree was obtained outside the U.S., the Test of English as a Foreign Language (TOEFL) must be completed and official scores submitted to MBKU using the school's code: 4893.

Coursework Prerequisites

The following courses must be completed at a regionally accredited institution in the U.S., with a grade of "C" or better, and are the minimum requirements for all applicants. A "Pass" grade will also be accepted.

12 semester or 16 quarter credit hours of Biological Science courses, which must include:

- Microbiology w/ lab
- Human Anatomy w/lab (Must be taken in the last 7 years)

- Human Physiology w/lab (Must be taken in the last 7 years)
- Other biological sciences, any area

One course (3 semester or 4 quarter credit hours) of each of the following:

- Biochemistry or Organic Chemistry
- Statistics
- General Psychology
- Genetics (no lab required)

Advanced Placement (AP) credits will be accepted for Psychology and Statistics only.

All prerequisites must be completed at a college or university accredited by one of the U.S. regional accrediting associations. Please see Accrediting Institutions (<https://www.ketchum.edu/sites/default/files/2018-09/AccreditingInstitutions.pdf>) for a list of those associations. To verify a college or university accreditation, you are advised to visit their website.

Online Course Policy

MBKU accepts prerequisite lecture courses completed online through regionally accredited colleges or universities. Please see Accrediting Institutions (<https://www.ketchum.edu/sites/default/files/2018-09/AccreditingInstitutions.pdf>) for a list of those associations. No virtual labs are accepted, however, hands-on take-home labs will be accepted. If you have any questions or would like to verify that a specific lab meets our requirements, please email paadmissions@ketchum.edu.

Requirements In Progress

Applicants may submit their CASPA application with two prerequisites in progress. However, all admissions requirements, degree, and coursework prerequisites must be completed by December 31. Applicants should be aware; some universities have lag times in producing official transcripts which could impact their ability to be considered for admission.

Clinical Experience

Patient care experiences will be considered on a case-by-case basis. Both the hours and the quality of patient interactions are evaluated.

All applicants must have at least 2000 hours of paid, verifiable, direct, hands-on patient care experience to be eligible to apply. Volunteer patient care hours that are part of a formal or professional training program *may* be credited towards this requirement.

Examples of preferred clinical experiences:

- Back Office Medical Assistant (MA)
- Certified Nurses' Assistant
- Clinical Care Extender
- EMT (patient care hours only)
- Licensed Vocational Nurse
- Military medic or corpsman
- Paramedic
- Physical Therapy Assistant
- Radiological Technician
- Registered Nurse
- Respiratory Therapist
- Medical Scribe

Foreign Applicants

The SPAS does not accept international applicants at this time. U.S. applicants with foreign coursework must meet the following requirements:

1. You must have completed all the prerequisite courses in the U.S. Please note that even if you have taken the prerequisite courses as part of your undergraduate degree in a foreign university, you will need to repeat the prerequisite courses at a college or university in the U.S.
2. You must send all non-U.S./Canadian transcripts to CASPA (the centralized application service utilized by PA programs).
3. While the prerequisite courses are not accepted from a foreign university, the transcript to verify a degree and license is required. Applicants should have their foreign (Non U.S./Canadian) transcripts evaluated by one of the approved services and the evaluation forwarded to CASPA.
4. If the degree is obtained outside the U.S., the TOEFL must be completed and official scores submitted to MBKU using the school's code: 4893.

Test Scores

Scores from the Graduate Records Examination (GRE) are not required. Applicants who have not earned a baccalaureate degree from a regionally-accredited institution must also submit official scores from the Test of English as a Foreign Language (TOEFL), regardless of the official language of the country in which the education took place or the predominant language of the degree-granting institution. Scores should be sent directly using Marshall B. Ketchum University Code 4893. Minimum scores are noted below:

Subject	Score
Reading	22/30
Listening	22/30
Speaking	26/30
Writing	24/30

Procedures

All applicants to the School of PA Studies at MBKU must submit their application through the Centralized Application Service for Physician Assistants (CASPA). The website for the service is portal.caspaonline.org (<https://portal.caspaonline.org>). All applicants should review the information and instructions on the CASPA website for submitting transcripts and letters of recommendation. Applicants will only have to submit transcripts and letters of recommendation to CASPA, not to the individual schools and colleges.

Upon completion of the application, applicants may designate MBKU as a school to receive the application.

All application documents **MUST** be submitted by the September 1st deadline to be eligible for admission. No exceptions will be considered. A "complete date" status is given when an application has been e-submitted and all transcripts, payments, and at least three letters of reference have been received by CASPA and attached to the application.

Letters of Recommendation

Three (3) letters of recommendation are required. Reference letters should not be from personal friends or family members. Letters of recommendation must be submitted directly to CASPA on or before September 1. It is strongly recommended that letters of recommendation include at least one from a clinician (MD/DO/PA/NP preferred) and

one from someone the applicant has known for at least 6 months. We strongly recommend documents be sent to CASPA at least two weeks prior to the September 1st deadline to ensure the applicant received the CASPA "complete date" by the deadline.

Process

Once the CASPA application is received by the admissions office, applicants will receive an email with a link to submit their non-refundable \$50 supplemental application fee.

The number of applicants to the SPAS at MBKU exceeds the number of available seats. Some applicants will not be admitted even though their academic records surpass the specified minimum recommendations and requirements. We aim to select students who demonstrate academic strength and capability, motivation, and personal attributes necessary for the practice of medicine as a PA.

The admissions process is done in multiple steps. Initial steps include screening each applicant's qualifications, including college records and GPAs, prerequisite completion, screening each applicant's degree and coursework prerequisites for admission, reviewing for completion of direct patient care experience, and reviewing the number of volunteer hours. The applicant's personal qualifications are also evaluated and reviewed by members of the Admissions Committee, as the study and practice of a PA requires great responsibility, maturity, ethics, devotion, intellectual curiosity, resiliency, and social commitment.

Those who meet the academic, clinical, and personal criteria of the preliminary screening may be considered for an interview with the SPAS at MBKU.

Additionally, the interviewing team aims to appraise such personal qualities as communication skills, problem-solving skills, interpersonal skills, emotional intelligence, maturity, aptitude, and career motivation. Applicants will interview with various stakeholders, including but not limited to members of SPAS faculty, practicing PAs from the community, members of the University administration, and faculty members from other MBKU colleges. Applicants are invited to matriculate based on their total interview score and the number of available class seats.

Provisional acceptance is offered pending the successful completion of a routine criminal background check.

Accepted applicants are required to submit a non-refundable matriculation fee of \$1500 within two weeks of their acceptance. The full \$1500 deposit will be credited to the Fall quarter tuition upon enrollment.

Advanced Placement

We do not accept previous experience or medical training for advanced placement in the PA program. All students are expected to complete all didactic and clinical elements of the program.

Transfer Policy

SPAS at MBKU does not accept transfer students or transfer credits from other schools. All students are required to complete the entire SPAS curriculum. Admission to advanced standing is not considered or accepted. SPAS does not allow students to take proficiency exams to test out of any course within the PA curriculum.

Financial Information

MBKU is a private, non-profit, independent education institution. The Office of Financial Aid provides financial services and advice to assist our students in meeting the educational expenses necessary to complete the

PA Program and achieve their dream of becoming a PA. The vast majority of students receive financial aid through federal and private loans as well as grants and/or scholarships.

The cost of attending the School of PA Studies is:

Fee	Amount
Annual Tuition	\$61,051.00
Annual Student Association Fee	\$70
Annual PA Student Class Fee	\$45
Parking Fee (annual)	\$365.00
Annual Equipment and Materials Fee	\$2,252.98
Annual Clinic Fee	\$4,000
Books (varies)	\$300
Graduation Fee (one time)	\$160.00

Tuition

2025–26 Tuition, Master of Medical Science Program

Annual Tuition & Fees	Full-Time Tuition	Class Fee	Clinic Fee	Mandatory Equipment & Materials	Student Government Fee	Graduation Fee	Total Annual Tuition and Fees
Class of 2025	\$30,525.50	NA	\$2,000.00	\$60.00	NA	\$160.00	\$32,745.50
Class of 2026	\$61,051.00	\$45.00	\$4,000.00	\$1,037.00	\$70.00	NA	\$66,203.09
Class of 2027	\$45,788.25	\$45.00	\$3,000.00	\$2,252.98	\$70.00	NA	\$51,156.23

Quarterly Tuition & Fees	Summer	Fall	Winter	Spring	Total Tuition and Fees
Class of 2025	\$16,322.75	\$16,422.75	NA	NA	\$32,745.50
Class of 2026	\$16,522.03	\$16,637.02	\$16,522.02	\$16,522.02	\$66,203.09
Class of 2027	NA	\$17,128.75	\$17,013.74	\$17,013.74	\$51,156.23

Tuition for Returning Students Enrolled Less Than Full Time

Fee	Amount
Tuition (less than full-time) per credit hour	\$797.47

Fees

Fee	Amount
Annual Parking fee (optional)	\$365.00

BOOKS

Nearly all of the required SPAS textbooks are available as an e-book free of charge to enrolled students. Students may choose to purchase soft or hardbound textbooks at their own expense if they prefer. Required texts that are not available as an e-book are the student's responsibility and are estimated to be approximately \$300.

Other Fees

During the clinical phase, students incur variable costs related to specific onboarding requirements for each clinical rotation site. These fees are paid directly to the vendor and not to MBKU. They include requirements such as updated background checks and drug screenings. The total

costs vary depending on where the student is placed for each clinical rotation and is estimated to be a maximum of \$900 for the entire clinical phase.

While the occasion has not previously presented itself, the Board of Trustees of MBKU does reserve the right to change the tuition and fees or to establish additional fees for special features or services if deemed necessary.

Curriculum

Didactic Phase

The didactic phase of the PA curriculum provides the foundation for clinical practice with instruction in applied medical sciences, patient assessment, clinical medicine and pharmacotherapeutics. The curriculum is organized into systems-based courses which incorporate anatomy, physiology, pathophysiology, clinical medicine, clinical skills, patient assessment, diagnostic testing and pharmacotherapeutics instruction. Courses are taught in an organized and integrated sequence with a strong emphasis on critical thinking and active learning. Other courses include medical ethics, graduate seminars on PA professional topics, population health, and evidence-based practice. In addition, students learn procedures including: sterile technique, venipuncture, IV placement, injections, airway management and endotracheal intubation, point of care ultrasound, urinary bladder catheter insertion, casting and splinting, local anesthesia and wound management and closure. Students also participate in interprofessional education courses and will experience supervised and simulated patient interactions. Integration of the curriculum facilitates the development of knowledge that is relevant and meaningful to clinical practice and which is amenable to updating and development as a part of an ongoing process of lifelong learning. Students must successfully pass all didactic academic requirements in order to progress to the second phase of their education, clinical rotations.

The didactic clinical medicine courses include:

- Study of basic medical sciences, principles of genetics, and immunology to prepare students for the advanced study of clinical medicine.
- Advanced study of human anatomy with 3-D human anatomy laboratories.
- Advanced study of physiology, pathology, and pathophysiology concepts of disease.
- Study of the epidemiology and etiology of disease states.
- Eliciting, performing, and documenting the medical history and physical exam.
- Selecting, interpreting, and applying appropriate laboratory, imaging, and other diagnostic tests.
- Advanced study of disease states including the development of a differential diagnosis, most likely diagnosis, and prognosis of disease.
- Developing patient management skills related to the principles of pharmacology as they pertain to prescription and non-prescription therapeutic agents.
- Study of the behavioral health aspects of wellness and disease.
- Study of preventive health care, patient-centered healthcare, patient-centered education, and health maintenance.
- Study of the clinical presentation of disease states across the lifespan.

- Identification and treatment of clinical emergencies.
- Study of current evidence-based healthcare principles.

The didactic interprofessional education courses are collaborative courses that instruct students across the colleges about the principles of interprofessional practice and allow students to practice interprofessional teamwork and communication skills in a classroom and small group setting.

The didactic professional courses are designed to provide students with instruction in evidence-based practice to include critical review of the medical literature; advanced study of the PA profession, medical ethics, public and population health, and employment issues.

* Specific sequence of courses subject to change

Course	Title	Hours
First Year		
Fall Quarter		
PAS 524	Fundamentals of Anatomy	2.00
PAS 526	Infectious Disease and Immunology	4.00
PAS 528	Clinical History	2.00
PAS 529	Dermatology	4.00
PAS 530	Eye, ENT	5.00
PAS 531A	Evidence Based Practice A	2.00
PAS 550	Introduction to PA Profession	1.00
PAS 555	Applied Physiology	2.00
PAS 556	Pathophysiology	4.00
IPE 401B	Professional Ethics	0.75
IPE 406B	IDEAs in Healthcare	0.75
Hours		27.5
Winter Quarter		
PAS 531B	Evidence Based Practice B	1.00
PAS 532	Pulmonology	5.00
PAS 533	Cardiology	6.00
PAS 534	Hematology	4.00
PAS 535	Nephrology	4.00
PAS 538	Gastroenterology	5.00
IPE 403B	Population and Public Health	2.00
Hours		27
Spring Quarter		
PAS 520	Integrative Patient Assessment Sem	1.00
PAS 531C	Evidence Based Practice C	1.00
PAS 536	Endocrinology	4.00
PAS 539	Orthopedics/Rheumatology	6.00
PAS 540	Neurology	6.00
PAS 541	Behavioral Health	2.00
PAS 551A	Masters Capstone Project IA	1.00
PAS 557	Male Genitourinary Health	2.00
IPE 404B	Interprofessional Case Conferences	0.75
Hours		23.75
Second Year		
Summer		
PAS 543	Pediatrics	5.00
PAS 546	Hospital Medicine	4.00

PAS 547	Geriatrics	2.00
PAS 551B	Masters Capstone Project IB	1.00
PAS 552A	Obstetrics & Gynecology A	3.00
PAS 552B	Obstetrics & Gynecology B	3.00
Hours		18
Fall Quarter		
PAS 544	Emergency Medicine	6.00
PAS 545	Surgery	3.00
PAS 612	Clinical Preparatory	6.00
PAS 609A	Masters Capstone Project IIA	3.00
IPE 400B	Medical Spanish (elective)	2.00
Hours		20
Winter Quarter		
PAS 609B	Masters Capstone Project IIB	3.00
PAS 610A	Graduate Seminar IA	1.00
PAS 670	Medical Clinical Services I	6.00
PAS 671	Medical Clinical Services II	6.00
Hours		16
Spring Quarter		
PAS 610B	Graduate Seminar IB	1.00
PAS 613	Masters Capstone Project III	1.00
PAS 672	Medical Clinical Service III	6.00
PAS 673	Medical Clinical Services IV	6.00
Hours		14
Third Year		
Summer		
PAS 674	Medical Clinical Services V	6.00
PAS 675	Medical Clinical Services VI	6.00
PAS 611A	Graduate Seminar IIA	1.00
Hours		13
Fall Quarter		
PAS 676	Medical Clinical Services VII	6.00
PAS 677	Medical Clinical Services VIII	6.00
PAS 611B	Graduate Seminar IIB	1.00
Hours		13
Total Hours		172.25

Medical Clinical Services

The clinical phase of the PA curriculum focuses on direct patient care that offers students a vast array of clinical opportunities with diverse and challenging patient encounters. Prior to beginning their clinical rotations, students engage in a comprehensive review of the entire first phase of training, designed to enhance their clinical exam skills and didactic knowledge. During their clinical rotations, students train with board-certified providers, across a number of different specialty areas, each averaging six weeks in length. Students are exposed to acute and chronic patient care needs across the lifespan in a variety of health care settings (i.e. emergency room, outpatient and inpatient settings, operating rooms, and long-term care facilities). In order to graduate, students must successfully complete all clinical rotations, the Master's Capstone Project, and Graduate Seminars, as well as Summative Examinations.

Code	Title	Hours
PAS 670	Medical Clinical Services I	6.00
PAS 671	Medical Clinical Services II	6.00
PAS 672	Medical Clinical Service III	6.00
PAS 673	Medical Clinical Services IV	6.00
PAS 674	Medical Clinical Services V	6.00
PAS 675	Medical Clinical Services VI	6.00
PAS 676	Medical Clinical Services VII	6.00
PAS 677	Medical Clinical Services VIII	6.00

Prerequisites: Completion of the preclinical phase of the School of Physician Assistant Studies or program permission.

The Medical Clinical Services courses will include experiences in the following:

Family Medicine

This clinical course provides the PA student with experience in outpatient evaluation of pediatric and adult patients, including preventive medicine and acute and chronic illness. Students will gain experience in proper and professional communication with patients, patient families, physicians, and an interdisciplinary team of healthcare professionals.

Internal Medicine

This clinical course provides the PA student with experience in outpatient and inpatient evaluation of adult patients, including management of acute and chronic illness. Students will gain experience in proper and professional communication with patients, patient families, physicians, and an interdisciplinary team of healthcare professionals.

Emergency Medicine

This clinical course provides the PA student with experience in triage, evaluation, and management of patients in the emergency department setting. The student will have the opportunity to learn skills necessary for appropriate triage, stabilization, evaluation, diagnosis, and management of patients with traumatic injuries and acute medical and surgical illnesses, as well as management of lower acuity health disorders. Students will gain experience in proper and professional communication with patients, patient families, physicians, and an interdisciplinary team of healthcare professionals.

Surgery

This clinical course will provide the PA student with experience in the evaluation and management of surgical patients in the preoperative, intraoperative, and postoperative environments. The PA student will evaluate and participate directly in the care of surgical patients before, during, and after their procedures. Students will gain experience in proper and professional communication with patients, patient families, physicians, and an interdisciplinary team of healthcare professionals.

Pediatrics

This clinical course will provide the PA student with experience in outpatient and/or in-patient management of pediatric patients. The student will have the opportunity to perform well-baby and child exams, problem-oriented exams, evaluate common pediatric illnesses, and experience care of newborns, children, and adolescents. Students will gain experience in proper and professional communication with patients, patient families, physicians, and an interdisciplinary team of healthcare professionals.

Women's Health/Obstetrics and Gynecology

This clinical course provides the PA student with experience in managing common gynecologic care and the maintenance of gynecologic health. Obstetric experience will include routine prenatal care. Students will gain experience in proper and professional communication with patients, patient families, physicians, and an interdisciplinary team of healthcare professionals.

Behavioral Health

The PA Student will gain experience in caring for ambulatory and/or hospitalized patients with behavioral and mental health conditions in a wide variety of settings during the clinical phase. The student will perform basic psychiatric evaluations, monitor medications, and support the clinical management plan for patients. Students will gain experience in proper and professional communication with patients, patient families, physicians, and an interdisciplinary team of healthcare professionals. Telehealth concepts and experiences may be incorporated into this rotation.

Clinical Rotation Elective

These clinical courses are selected by the student from a variety of surgical or medical specialties, or subspecialties, such as orthopedics, oncology, endocrinology, primary care, occupational medicine, hospitalist medicine, and others. The student will gain experience caring for patients and managing conditions treated by these specialties and expand their knowledge of medical and/or surgical indications requiring referral to specialty care. Students will gain experience in proper and professional communication with patients, patient families, physicians, and an interdisciplinary team of healthcare professionals.

INDEPENDENT STUDY

This course is designed to provide the student an opportunity to deepen their understanding of clinical medicine and its application to patient care. Learning will occur through a variety of modalities including recorded or live lecture, online learning modules, simulated and/or virtual patient encounters, practice questions, individual tutoring, and independent study. Emphasis will be placed on developing the student's ability to effectively evaluate, diagnose, and manage clinical medicine conditions in patients of all ages. This course may include principles of anatomy, physiology, pathophysiology, genetic heritability, epidemiology, etiology, clinical history taking, clinical signs and symptoms, diagnosis (including diagnostic labs and procedures), therapeutic management, prevention, and prognosis of disease.

Courses

Code	Title	Hours
PAS 520	Integrative Patient Assessment Sem	1.00
PAS 524	Fundamentals of Anatomy	2.00
PAS 526	Infectious Disease and Immunology	4.00
PAS 528	Clinical History	2.00
PAS 529	Dermatology	4.00
PAS 530	Eye, ENT	5.00
PAS 531A & PAS 531B & PAS 531C	Evidence Based Practice A and Evidence Based Practice B and Evidence Based Practice C	4.00
PAS 532	Pulmonology	5.00
PAS 533	Cardiology	6.00
PAS 534	Hematology	4.00
PAS 535	Nephrology	4.00

PAS 536	Endocrinology	4.00
PAS 538	Gastroenterology	5.00
PAS 539	Orthopedics/Rheumatology	6.00
PAS 540	Neurology	6.00
PAS 541	Behavioral Health	2.00
PAS 543	Pediatrics	5.00
PAS 544	Emergency Medicine	6.00
PAS 545	Surgery	3.00
PAS 546	Hospital Medicine	4.00
PAS 547	Geriatrics	2.00
PAS 550	Introduction to PA Profession	1.00
PAS 551A & PAS 551B	Masters Capstone Project IA and Masters Capstone Project IB	2.00
PAS 552A & PAS 552B	Obstetrics & Gynecology A and Obstetrics & Gynecology B	6.00
PAS 555	Applied Physiology	2.00
PAS 556	Pathophysiology	4.00
PAS 557	Male Genitourinary Health	2.00
PAS 609A & PAS 609B	Masters Capstone Project IIA and Masters Capstone Project IIB	6.00
PAS 610A & PAS 610B	Graduate Seminar IA and Graduate Seminar IB	2.00
PAS 611A & PAS 611B	Graduate Seminar IIA and Graduate Seminar IIB	2.00
PAS 612	Clinical Preparatory	6.00
PAS 613	Masters Capstone Project III	1.00

Graduation Requirements

To be eligible for graduation and to receive the Master of Medical Science Degree, the student must meet the following requirements:

- Successfully pass all required courses and clinical rotations.
- Successfully complete the Master's Capstone Project and Presentation.
- Pass a comprehensive, multi-faceted summative exam assessing the student's acquisition of the Graduate Learning Outcomes and competencies for PA Clinical Practice.
- Be recommended for conferral of the degree of Master of Medical Science by the SPAS Program Director.
- Settle all financial accounts with the University.

If a student has not met all graduation requirements, the student *may* be eligible to walk through and participate in the graduation ceremony with their class, but will not receive a diploma until all requirements have been met.

Note on licensure: Meeting the graduation requirements for the MMS degree at the SPAS at MBKU does not guarantee eligibility for state licensure. Some states have specialized requirements or exclusion criteria for licensure, and students are advised to check with the Medical or PA Board in states of possible residency for licensure requirements.

Probation Policy

SPAS has academic progression policies in place to ensure all students are meeting the specific goals and learning outcomes for each course and are qualified to progress within the Program. A student is considered in good academic standing at a given time if they have earned a

"P" (pass) for all courses to date, have at least one reassessment opportunity remaining, scored within two standard deviations on the didactic PACKRAT exam (if applicable), passed the EOC summative exam (if applicable), and have not required extended learning for any course or rotation.

A detailed description of the Academic Progression Policy (<https://catalog.ketchum.edu/physician-assistant-studies-student-handbook/spas-policies-procedures/academic-progression/>) including academic probation and academic warning can be found in the SPAS Student Handbook.