**PHYSICIAN ASSISTANT (PA)**

**PA 6000 Foundations — 1 credit**
The first MPAS course, Foundations introduces PA students to the MPAS Program and orients them to the principles of the Program and the PA profession. Students are first introduced to critical observation, clinical reasoning, collaboration within a group and self assessment of learning styles. The foundations course also starts PA students' first contact with the clinical setting, patient care and inter-professional experiences. **Prerequisite:** Acceptance into the MPAS Program or permission of the program director.

**PA 6010 Dermatology — 3 credits**
The Dermatology course provides an integrative approach incorporating basic medical sciences, history and physical exam taking skills, patient management, pharmacotherapy, clinical medicine and clinical experience components of the curriculum. Scholar practitioner skills and professionalism are woven throughout. Students will learn, demonstrate and apply techniques and skills essential in the interview and physical exam of patients. Preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, treatment and prevention of common and serious disorders in the area of dermatology and builds upon associated foundational concepts within anatomy and pathophysiology. In addition, this course covers holistic patient management, pharmacology, and pharmacotherapy related to disease processes of the dermatologic system. It is delivered in lecture, independent study modules, collaborative learning, laboratory and practical models of study. **Prerequisite:** Acceptance into the MPAS Program or permission of the program director.

**PA 6020 Musculoskeletal — 4 credits**
The Musculoskeletal course provides an integrative approach incorporating basic medical sciences, history and physical exam taking skills, patient management including pharmacotherapy, clinical medicine and clinical experience components of curriculum. Scholar practitioner skills are woven throughout. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in the musculoskeletal system and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of the musculoskeletal system and pain management. It is delivered in lecture, cooperative learning, laboratory models of study and practical application models of study. **Prerequisite:** Acceptance into the MPAS Program or permission of the program director.

**PA 6030 Neurology — 3 credits**
The Neurology course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience, as well as scholar practitioner skills. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients in the areas of the neurologic system. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in neurology system and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of the neurologic disorders. It is delivered in lecture, cooperative learning laboratory models of study and practical application models of study. **Prerequisite:** Acceptance into the MPAS Program or permission of the program director.

**PA 6040 Eyes Ears Nose Throat Infectious Disease — 3 credits**
The eye, ear, nose, throat and infectious disease course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management, pharmacotherapy, clinical medicine and clinical experience components of curriculum. Scholar practitioner skills are woven throughout. Students will learn, demonstrate and apply techniques and skills essential in the practice of medicine. Preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in the area of otolaryngology and ophthalmology and builds upon associated foundational concepts within immunology, infectious disease, anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of the otolaryngologic system, infectious diseases, and the eye. It is delivered in lecture, collaborative learning, laboratory and practical application models of study. **Prerequisite:** Acceptance into the MPAS Program or permission of the program director.

**PA 6050 Cardiovascular — 5 credits**
The Cardiovascular course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience components of curriculum. Scholar practitioner skills are woven throughout. Students will learn, demonstrate and apply techniques and skills essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in the area of cardiology and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of the cardiovascular system. It is delivered in lecture, cooperative learning, laboratory, and practical application models of study. **Prerequisites:** PA 6000, PA 6010, PA 6020, PA 6030, PA 6040.
PA 6060 Pulmonary — 4 credits
The Pulmonary course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience components of curriculum. Scholar practitioner skills are woven throughout. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in the area of pulmonology and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of the respiratory system, including advanced infectious disease. It is delivered in lecture, cooperative learning, laboratory models of study and practical application models of study.
Prerequisites: PA 6000, PA 6010, PA 6020, PA 6030, PA 6040.

PA 6070 Gastroenterology — 3 credits
The Gastroenterology course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience, as well as scholar practitioner skills. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in the gastroenterology system and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of the gastrointestinal system. It is delivered in lecture, cooperative learning, laboratory models of study and practical application models of study.
Prerequisites: PA 6000, PA 6010, PA 6020, PA 6030, PA 6040.

PA 6080 Genitourinary — 2 credits
The Genitourinary course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience, as well as scholar practitioner skills. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in the genitourinary system and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of the renal and urologic systems. It is delivered in lecture, cooperative learning, laboratory models of study and practical application models of study.
Prerequisites: PA 6000, PA 6010, PA 6020, PA 6030, PA 6040.

PA 6090 Hematology and Oncology — 2 credits
The Hematology and Oncology course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience, as well as scholar practitioner skills. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in both the hematological system and oncology and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of the hematological system and chemotherapy management. It is delivered in lecture, cooperative learning, laboratory models of study and practical application models of study.
Prerequisites: PA 6000, PA 6010, PA 6020, PA 6030, PA 6040.

PA 6100 Endocrine — 2 credits
The Endocrine course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience components of curriculum. Scholar practitioner skills are woven throughout. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in the area of endocrinology and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of the endocrine system, including advanced infectious disease. It is delivered in lecture, cooperative learning, laboratory models of study and practical application models of study.
Prerequisites: PA 6000, PA 6010, PA 6020, PA 6030, PA 6040.

PA 6120 Mental Health — 2 credits
The Mental health course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience components of curriculum. Scholar practitioner skills are woven throughout. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in the area of mental health and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes of mental health, including advanced disease. It is delivered in lecture, cooperative learning, laboratory models of study and practical application models of study.
Prerequisites: PA 6000, PA 6010, PA 6020, PA 6030, PA 6040.
PA 6200 Women’s Health — 2 credits
The Women’s Health course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience components of curriculum. Scholar practitioner skills are woven throughout. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and management of common and serious disorders in female patients and builds upon foundational concepts within anatomy, physiology, and pathophysiology. This course covers holistic patient management, pharmacology, and pharmacotherapy related to disease processes and well-being in women’s health. It is delivered in lecture, cooperative learning, case-based learning, and hands-on laboratory formats.
Prerequisites: PA 6050, PA 6060, PA 6070, PA 6080, PA 6090, PA 6110, PA 6120.

PA 6300 Pediatrics — 2 credits
The Pediatrics health course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience components of curriculum. Scholar practitioner skills are woven throughout. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Well child care, genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in pediatric patients and builds upon foundational concepts within anatomy, physiology, and pathophysiology. It is delivered in lecture, cooperative learning, case-based learning, team-based learning, independent study, and hands-on laboratory formats.
Prerequisites: PA 6050, PA 6060, PA 6070, PA 6080, PA 6090, PA 6110, PA 6120.

PA 6400 Aging and Elderly — 2 credits
The Aging and Elderly course provides an integrative approach incorporating basic medical sciences, history and physical exam skills, patient management including pharmacotherapy, clinical medicine and clinical experience components of curriculum. Scholar practitioner skills are woven throughout. Students will learn, demonstrate and apply techniques and skills, essential in the interview and physical exam of patients. Genetics and preventative health measures will be addressed. This course includes background in the epidemiology, etiology, clinical presentation, diagnosis, and treatment of common and serious disorders in the aging and elderly and builds upon associated foundational concepts within anatomy and pathophysiology. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes and well-being in aging and the elderly. It is delivered in lecture, cooperative learning, laboratory models of study and practical application models of study.
Prerequisites: PA 6050, PA 6060, PA 6070, PA 6080, PA 6090, PA 6110, PA 6120.

PA 6500 Special Populations — 2 credits
The Special Populations course provides an integrative approach through a review of all clinical medicine areas, allowing students to become familiar with the healthcare needs of special population groups, gain insight into the issues of healthcare disparity, global health and cultural competence in healthcare delivery. This course covers holistic patient management, pharmacology and pharmacotherapy related to disease processes in special populations. It is delivered in lecture, cooperative learning, laboratory models of study and practical application models of study.
Prerequisites: PA 6050, PA 6060, PA 6070, PA 6080, PA 6090, PA 6110, PA 6120.

PA 6600 Primary Care — 2 credits
The Primary Care course provides an integrative approach through a review of all clinical medicine areas, allowing students to become familiar with the healthcare needs of in the setting of primary, chronic care. Integrated clinical experience is incorporated into this course. Students learn advanced clinical reasoning, as they revisit clinical material through the lens of patients, their families and inter-professional healthcare team members in primary care settings.
Prerequisites: PA 6050, PA 6060, PA 6070, PA 6080, PA 6090, PA 6110, PA 6120.

PA 6700 Surgical and Hospital Care — 2 credits
The Surgical and Hospital Care course provides an integrative approach through a review of all clinical medicine areas, allowing students to become familiar with the health care needs of patients in the setting of surgical and hospital based care. An integrated clinical experience in this healthcare setting is incorporated into this course. Students learn advanced clinical reasoning, as they revisit clinical material through the lens of patients, their families and inter-professional healthcare team members in surgical and hospital settings.
Prerequisites: PA 6200, PA 6300, PA 6400, PA 6500, PA 6600.

PA 6800 Urgent and Emergency Care — 2 credits
The Urgent and Emergency Care course provides an integrative approach through a review of all clinical medicine areas, allowing students to become familiar with the healthcare needs in the setting of urgent and emergency care. Students learn advanced clinical reasoning, as they revisit clinical material through the lens of patients, their families and inter-professional healthcare team members in urgent and emergency healthcare settings.
Prerequisites: PA 6200, PA 6300, PA 6400, PA 6500, PA 6600.
PA 6953 Independent Study — 3 credits
PA 6992 Topics — 2 credits
PA 6993 Topics — 3 credits
PA 6996 Topics — 6 credits
PA 7050 Primary Care Clerkship — 4 credits
The Clinical Practice Clerkship in Primary Care course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of the Primary Care disciplines. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as Clinical Instructor evaluations.

PA 7100 Family Medicine Clerkship — 2-8 credits
The Clinical Practice Clerkship in Family Medicine course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of Family Medicine. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as Clinical Instructor evaluations.

PA 7150 Family Medicine Clerkship — 4 credits
The Clinical Practice Clerkship in Family Medicine course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of Family Medicine. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as Clinical Instructor evaluations.

PA 7200 Pediatrics Clerkship — 2,4 credits
The Clinical Practice Clerkship in Pediatrics course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of pediatric medicine. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as clinical instructor evaluations.

PA 7250 Community and Clinical Quality Improvement — 3 credits
This seminar is structured after a clerkship delivery model and occurs after students have transitioned into clinical clerkship courses. This course introduces students to a variety of tools used in community and clinical quality improvement (CCQI) projects and reviews critical guidance to assist them in designing their final CCQI project. The U.S. government’s Health Resources and Services Administration (HRSA) provides the following definition: Quality improvement (QI) consists of systematic and continuous actions that lead to measurable improvement in health care services and the health status of targeted patient groups. The Institute of Medicine (IOM), which is a recognized leader and advisor on improving the Nation’s health care, defines quality in health care as a direct correlation between the level of improved health services and the desired health outcomes of individuals and populations (http://1.usa.gov/1GlggCE). Students will work in self-defined teams (or as individuals) in association with a clinical or community site to complete a QI project that responds to a problem or question identified by the site. Students are expected to identify an appropriate site and site preceptor/mentor for their project. Prior to beginning the CCQI project, student teams and preceptors will sign a "contract" of expectations for the course of the project and its outcomes. At the end of the course, preceptors will be asked to complete an assessment of the team’s work.

Prerequisites: Acceptance into the MPAS Program and MPAS Program prerequisite coursework.

PA 7300 Women’s Health Clinical Clerkship — 2 credits
The Clinical Practice Clerkship in Women’s Health emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of Women’s Health. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as clinical instructor evaluations.
PA 7350 Women's Health Clerkship — 4 credits
The Clinical Practice Clerkship in Women’s Health emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of Women’s Health. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as clinical instructor evaluations.

PA 7400 Internal Medicine Clerkship — 2-6 credits
The Clinical Practice Clerkship in Internal Medicine course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of internal medicine. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as clinical instructor evaluations.

PA 7450 Internal Medicine Clerkship — 4 credits
The Clinical Practice Clerkship in Internal Medicine course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of internal medicine. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as clinical instructor evaluations.

PA 7500 General Surgery Clerkship — 2,4 credits
The Clinical Practice Clerkship in General Surgery course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of general surgical medicine. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as clinical instructor evaluations.

PA 7600 Emergency Medicine Clerkship — 2-6 credits
The Clinical Practice Clerkship in Emergency Medicine course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of emergency medicine. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as clinical instructor evaluations.

PA 7650 Emergency Medicine Clerkship — 4 credits
The Clinical Practice Clerkship in Emergency Medicine course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of emergency medicine. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care setting and evaluated through modalities such as written exams, case studies, practical cases, as well as clinical instructor evaluations.
PA 7700 Mental Health Clinical Clerkship — 2.4 credits
The Clinical Practice Clerkship in Mental Health course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice of mental health. Comprehensive and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care settings and evaluated through modalities such as written exams, case studies, practical cases, as well as clinical instructor evaluations.

PA 7800 Elective I Clerkship — 2.4 credits
The Elective I clerkship is a required clerkship in an area of medicine chosen by the student with the approval of the student’s advisor and clinical coordinator. This course is a focused study and practical clinical experience in a core clerkship area of study or in a subspecialty of medicine. Students, as a component of the curriculum, will develop course learning objectives. The course is delivered through a clinical practice experience and assessment is largely focused around the student’s development of a focused topic area, presentation of this data, as well as clinical instructor assessments and evaluations.

PA 7850 Elective II Clerkship — 2.4 credits
The Elective II clerkship is a required clerkship in an area of medicine chosen by the student with the approval of the student’s advisor and clinical coordinator. This course is a focused study and practical clinical experience in a core clerkship area of study or in a subspecialty of medicine. Students, as a component of the curriculum, will develop course learning objectives. The course is delivered through a clinical practice experience and assessment is largely focused around the student’s development of a focused topic area, presentation of this data, as well as clinical instructor assessments and evaluations.

PA 7900 Senior Clerkship I — 4 credits
The Senior Clerkship I course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice chosen by the student (or appointed by the Clinical Coordinators) and approved by the Clinical Coordinators and site Preceptors. Advanced comprehension and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care settings and evaluated through modalities such as written exams, SOAP notes with analysis, online cases studies, as well as preceptor assessments and evaluations.

PA 7950 Senior Clerkship II — 4 credits
The Senior Clerkship II course emphasizes the pathophysiology, evaluation, diagnosis, and management of diseases and conditions unique in the practice chosen by the student (or appointed by the Clinical Coordinators) and approved by the Clinical Coordinators and site Preceptors. Advanced comprehension and accurate data collection through patient history, physical exam, laboratory and diagnostic studies, as well as formulation of differential diagnosis through clinical fund of knowledge, clinical reasoning and critical thinking are expected. Students will strengthen their skills in patient management, emphasizing preventative medicine and including patient education, counseling, making referrals, pharmaceutical management and holistic approaches to health and wellness. The clinical experience of this course supports opportunities for patient evaluation, care and management, which include procedures and technical skills, as well as an understanding of practice settings, collaborative practice and communication common in medical settings. It is delivered through clinical practical experiences in various health care settings and evaluated through modalities such as written exams, SOAP notes with analysis, online cases studies, as well as preceptor assessments and evaluations.

PA 7980 Senior Seminar — 3 credits
The Senior Seminar Capstone course is a required course that spans the final semester, overlaps Senior Clerkships I and II and convenes for a concentrated final on-campus weeks to conclude program content, just prior to graduation. Carefully targeted lectures, activities, and assignments assist students in preparing for the National Certification Examination, obtaining licensure to practice as a Physician Assistant, seeking and obtaining employment as a PA, maintaining PA certification, and planning for professional development and life-long learning. Upon completion of this course, students are eligible to take the MPAS Program Summative Knowledge Assessments, the final evaluation of eligibility and readiness for graduation.

PA 7991 Topics — 1 credit

PA 7999 Senior Seminar-Capstone — 1 credit
The Senior Seminar/Capstone is a required course that spans the final semester Senior Clerkships and convenes for a concentrated final program week just prior to graduation. Carefully targeted lectures, activities, and assignments assist students in preparing for the National Certification Examination, obtaining licensure to practice as a Physician Assistant, seeking and obtaining employment as a PA, maintaining PA certification, and planning for professional development and life-long learning. Upon completion of this course, students are eligible to take the MPAS Program Summative Knowledge Assessments, the final evaluation of eligibility and readiness for graduation.
PA 8010 Research I — 2 credits
This course addresses medical information literacy and the basics of research through location, evaluation, interpreting, critical analysis and utilization of current research within medical literature and databases. It emphasizes skills in literature searching, understanding AMA writing style, and applying basic understanding of quantitative and qualitative research methods to critique research evidence in guiding evidence-based practice. The course emphasizes research as a tool in physician assistant practice to expand clinical knowledge base, inform quality improvement in the practice setting and enhance patient care and management outcomes. It provides a broad overview of epidemiology, reviewing primary, secondary and tertiary disease prevention as they relate to preventative medicine and public health. By the end of the semester students working in pairs will have identified a research question and faculty research mentor, and will have completed a preliminary review for a research project they will complete in Research II.
Prerequisite: Acceptance into the MPAS Program or permission of the program director.

PA 8015 Research II: Proposal Writing and Research Implementation — 3 credits
Research II builds on the evidence-based critique of the medical literature started in Research I. In addition, students will fully develop the research project they started in Research I with their faculty mentor by completing a research proposal and completing their analysis and final report by the end of the semester. Additional time will be spent analyzing and presenting clinical cases, and learning about large cohort studies and clinical trials that form the basis of many current clinical practices. Students will continue to develop their critical reading and writing skills through discussions of scientific literature.
Prerequisite: PA 8010.

PA 8020 Research II: Research Methodology, Analysis and Proposal Writing and ICE — 2 credits
Research II introduces the students to clinical research methodology and data analysis as it relates to medicine and physician assistant practice. Students will be introduced to both quantitative and qualitative tool development and analysis. The Statistical Package for the Social Sciences (SPSS) program will be utilized as a platform for providing students with hands-on practical application of quantitative data analysis. Students will learn to define, enter, and transform data for quantitative data analysis. Using simulated data sets, students will learn descriptive and graphical procedures to describe data and evaluate assumptions necessary for advanced statistical data analysis. Students will develop qualitative interview and focus group guides, conduct interviews, and learn to conduct preliminary qualitative analysis. Students will continue to develop their critical reading and writing skills through discussions of scientific literature. As a requirement of the course, students will develop a research question and write a research proposal in groups with the guidance of a faculty research advisor and their instructor. This course is closely tied to the St. Catherine University's graduate school strategic direction for research and draws on the mission statements of the University and the Physician Assistant Program for direction. Learning activities will be split between classroom instruction, research, individual and small group exercises.
Prerequisite: PA 8010.

PA 8025 Research Application III: Dissemination — 3 credits
The Research III course is an applied course focused on the dissemination of research relevant to medicine and physician assistant practice. The course builds on the students’ previously designed and implemented research in PA 8010 and PA 8015. Students will produce a conference poster of their research and make a public presentation before graduation. Students will conduct a stakeholder analysis of their potential dissemination audiences and identify alternative communication products for each. In addition, we will identify best practices in clinical quality improvement and critique practice-based models.
Prerequisite: PA 8015.

PA 8030 Research III: Research Application I — 2 credits
This is a profession and practice oriented research course which involves research projects in small groups with faculty advisors as is relevant in medicine and physician assistant practice. Students will further develop their skills in survey tool and interview guide development, the ethical practice of research, and peer critique of research proposal designs. Students will finalize research proposals, practice peer evaluations, initiate communication and coordination of their research projects and submit proposals to the IRB for ethical research approval as appropriate. At the end of the session, each student group will engage in a “teach in” session related to their research. The “teach in” topic and learning objectives will be defined by each research team, exploring either a content area or methodological lessons learned or research dilemmas.
Prerequisite: PA 8020.

PA 8040 Research IV - Research Application II — 1 credit
This is an applied research course relevant to medicine and physician assistant practice that builds on students’ previously designed research proposals. The primary activities are data collection and analysis in close consultation with the student’s faculty research mentor, field preceptor (as appropriate) and the research faculty. This course is designed so that each research team can function relatively independently with their faculty mentor. Students will set their own timeline for deadlines with the exception of the assignments described in this syllabus. Students will identify what resources they need to complete their project successfully; supplemental resources are available on the course D2L page.
Prerequisite: PA 8030.

PA 8050 Research V: Research Application - Dissemination — 1 credit
The Research V course is an applied research course in research dissemination relevant to medicine and physician assistant practice. The course builds on the students’ previously designed and implemented research in PA 8040. Students will produce two dissemination products of their research and make a public presentation before graduation.
Prerequisite: PA 8040.