

MS in Pathologists' Assistant
IPEC Competency Map - AY 2018-19

Year Applicable	Student Learning Outcome	IPEC Core Competency Domain:
Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork		
1st & 2nd	1. Recognize and respect the diversity of patients and fellow health care providers as well as acknowledge one's responsibilities to patients' families and the community at large.	1, 2, 4
1st & 2nd	2. Effectively communicate and collaborate with other health care professionals in interprofessional teams.	3, 4
1st & 2nd	3. Engage in evidence-based practice within the anatomic pathology laboratory while making a conscious, continued effort to improve performance.	2
1st & 2nd	4. Synthesize clinical information from various sources to present comprehensive clinical pathologic correlations.	2
1st & 2nd	5. Communicate complex anatomic pathology information effectively in written, verbal, and photographic forms.	2, 3
1st & 2nd	6. Discern normal structure and function of organs, tissues, and cells from pathologic changes as demonstrated by selecting appropriate techniques for collecting, handling, submitting, and processing specimens.	2
1st & 2nd	7. Embrace and actively participate in a systems-based approach to reducing error, ensuring safety, and improving quality of care.	1, 2
1st & 2nd	8. Understand the value of information technology and promote its utilization in professional practice.	2
1st & 2nd	9. Provide leadership in the laboratory through an understanding of management techniques and the operations and services provided in the anatomic pathology laboratory to facilitate efficiency and productivity.	2, 3, 4
1st & 2nd	10. Conduct the practice of a Pathologists' Assistant in a professional manner, and by doing so, act as a steward of the profession for students, colleagues, and the public through education and research into the art and science of the practice of anatomic pathology.	1, 2, 3, 4

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Course:	Course Name:	Course Goal:	IPEC Core Competency Domain:
SUMMER			
Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
MCBA 501 Clinical Anatomy			
		A. Demonstrate mastery of the application of anatomical terms of orientation including terms of direction and movement, cardinal planes, and common anatomical description in oral and written communications.	2,3
		B. Demonstrate the surface and internal anatomy and clinically relevant anatomical landmarks of the Thorax	2
		C. Demonstrate the surface and internal anatomy and clinically relevant anatomical landmarks of the Back.	2
		D. Demonstrate the surface and internal anatomy and clinically relevant anatomical landmarks of the Upper extremity.	2
		E. Demonstrate the surface and internal anatomy and clinically relevant anatomical landmarks of the Neck.	2
		F. Demonstrate the surface and internal anatomy and clinically relevant anatomical landmarks of the Head.	2
		G. Demonstrate the surface and internal anatomy and clinically relevant anatomical landmarks of the Abdomen.	2
		H. Demonstrate the surface and internal anatomy and clinically relevant anatomical landmarks of the male and female Pelvis and Perineum.	2
		I. Demonstrate the surface and internal anatomy and clinically relevant anatomical landmarks of the Lower extremity.	2

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SUMMER			
Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
HAPA 560 Clinical Correlations I			
		1. Develop an appreciation of the role that Pathologists' Assistants may play in the education of healthcare professionals.	2
		2. Realize the utility of visual images in anatomic pathology.	2
		3. Realize the psychological implications of working in the anatomic pathology laboratory.	2, 3, 4
		4. Contextualize the role of pathology in the clinical decision making process.	2, 3, 4
		5. Value the importance of medical oncology, surgical oncology, clinical pathology and pharmacy practice with respect to holistic patient care.	2, 3, 4

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SUMMER			
Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
HAPA 560A Clinical Correlations I Lab			
		1. Demonstrate safe techniques and practices within the anatomic laboratory setting.	2
		2. Demonstrate professionalism within the anatomic laboratory setting.	1, 2, 4
		3. Exhibit preparedness for laboratory sessions.	2
		4. Demonstrate proficiency at taking and critiquing photographs.	2
		5. Demonstrate an understanding of the role radiology plays in anatomic pathology.	2, 4
		6. Utilize radiographic images in the context of anatomic pathology.	2
		7. Develop an appreciation of the psychological impact of working in an anatomic pathology laboratory.	2, 3, 4
		8. Demonstrate an understanding of basic clinical reasoning skills, medical oncology, surgical oncology and pharmacy practice within the context of pathology.	2, 3, 4
		9. Formulate diagnoses from images and specimens.	2
		10. Identify anatomic landmarks on images and specimens.	2
		11. Identify safety concerns from images.	2

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SUMMER			
Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
HAPA 550 Seminar I			
		1. Appreciate theories that seek to explain the importance of critical thinking and medical ethics.	1, 2
		2. Understand the importance of and relationship between ethics and professionalism in the healthcare setting.	1, 2, 4
		3. Apply critical thinking skills to support inferences and draw logical conclusions based on evidence provided.	1
		4. Appreciate the importance of high-trust relationships in the healthcare setting.	2, 3, 4
		5. Analyze the concept of establishing expectations and employee motivation	2, 3
		6. Understand the importance of and relationship between ethics and professionalism in the healthcare setting	1, 2
		7. Enhance the interpersonal skills necessary for effective leadership.	2, 3
HAPA 535 Medical Terminology			
		1. Develop a medical vocabulary which allows for the effective communication of pertinent medical information as presented in the text, online, and during lecture	2, 3

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FALL			
Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
MPAT 600A General and Systemic Pathology			
		1. Demonstrate knowledge about established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences and apply this knowledge in caring for ill and healthy patients of all ages.	2
		2. Demonstrate patient centered care that is compassionate, appropriate and effective for the promotion of health, quality of life, prevention of illness, treatment of disease, and the end of life.	2, 4
		3. Demonstrate a commitment to professional services, adherence to ethical principles, and awareness of one's own interests and vulnerabilities.	1, 2
		4. Demonstrate the ability to appraise and assimilate scientific evidence to evaluate and improve patient care practices.	2
		5. Demonstrate and awareness of and responsiveness to the larger context of health care and be able to call on system resources and other health care professionals to provide optimal care.	2, 4

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Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
PBBS 503A Structure and Function			
		1. Understanding the microscopic anatomy and physiological functions of organ systems.	2
		2. Recognizing the appearance of normal histological structure.	2
		3. Performing some procedures used in patient physical examinations.	2
		4. Learning sufficient content to prepare for the American Podiatric Medical Licensing Examination, Part I, and the certification exam for Pathologists' Assistants.	2
HAPA 561 Clinical Correlations II			
		1. Contextualize the role of pathology in the clinical decision making process.	2
		2. Realize the psychological implications of working in the anatomic pathology laboratory.	2, 4
		3. Value the importance of medical oncology, surgical oncology and pharmacy practice within the context of pathology.	2, 4
		4. Comply with proper prosection techniques and recognize circumstances when pathologic processes dictate deviation from said techniques.	2
		5. Develop an appreciation for the role of the microbiology laboratory within the greater context of surgical pathology.	2, 4
		6. Value the importance of embryologic development, anatomy and function of pertinent organ systems.	2

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HAPA 561A Clinical Correlations II Lab			
		1. Demonstrate safe techniques and practices within the anatomic laboratory setting.	2
		2. Demonstrate an understanding of basic clinical reasoning skills, medical oncology, surgical oncology and pharmacy practice within the context of pathology.	2, 4
		3. Apply proper microbiological techniques in the anatomic pathology laboratory.	2
		4. Develop and appreciation of the psychological impact of working in an anatomic pathology laboratory.	2, 4
		5. Demonstrate proficiency at taking and critiquing photographs.	2
		6. Prosect various animal specimens.	2
		7. Develop gross dictations of specimens.	2
		8. Formulate gross diagnoses from images and specimens.	2
		9. Identify anatomic landmarks on images and specimens.	2

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Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
HAPA 551 Seminar II			
		1. Engage in critical evaluation of literature.	1, 3
		2. Explore ideas of illness metaphorically and through represented media.	1, 3
		3. Assess the cultural value assigned to medicine from the varied perspectives of patients, practitioners and other allied health care professionals	1, 2, 3, 4
		4. Convey the importance of empathy in the healthcare environment	1
		5. Develop the ability to analyze controversies, select and evaluate evidence, construct and refute arguments	3
		6. Learn theories that seek to explain the process of communicating arguments with people.	3

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HIPS 515 Foundations for Interprofessional Practice			
		1a. Describe the concepts and principles of interprofessionalism to the healthcare environment.	1
		1b. Develop and apply teamwork, communication and collaboration skills to an interprofessional team setting.	1
		1c. Demonstrate the ability to participate effectively as a member of an interprofessional team in activities that improve the safety and quality of health care.	1
		2a. Identify attitudes, beliefs and behaviors that are barriers to interprofessional collaboration and communication.	2
		2b. Apply principles of change management to overcome such barriers.	2
		2c. Utilize effective communication and collaboration techniques to facilitate respectful interactions and discussions that augment team function.	2
		3a. Apply the principles of active listening and respect to all members of the healthcare team.	3
		3b. Recognize and embrace the unique differences of patients, populations and team members.	3
		4a. Compare and contrast interprofessional healthcare roles, responsibilities and scope of practice.	4
		4b. Articulate the unique contribution each healthcare discipline provides to the management of complex patients.	4

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WINTER			
Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
MPAT 600B General and Systemic Pathology			
See Fall, MPAT 600A			
PBBS 503B Structure and Function			
See Fall, PBBS 503A			
HAPA 562 Clinical Correlations III			
		1. Contextualize the role of pathology in the clinical decision making process.	2
		2. Comply with proper prosection techniques and recognize circumstances when pathologic processes dictate deviation from said techniques.	2
		3. Develop an understanding of pathologic processes which affect specified organ systems.	2
		4. Appreciate the vital role that management can play in the context of the pathology laboratory.	2, 4
		5. Appreciate the vital role of day-to-day laboratory operations.	2, 3, 4
HAPA 562A Clinical Correlations III Lab			
		1. Demonstrate safe techniques and practices within the anatomic laboratory setting.	2
		2. Utilize basic principles of laboratory management in the anatomic pathology laboratory.	2, 4
		3. Demonstrate proficiency at taking and critiquing photographs.	2
		4. Demonstrate proficiency at frozen sectioning techniques.	2
		5. Prosect various animal specimens.	2
		6. Develop gross dictations of specimens.	2
		7. Formulate gross diagnoses from images and specimens.	2
		8. Identify anatomic landmarks on images and specimens.	2

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WINTER			
Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
HAPA 552 Seminar III			
		1. Demonstrate a foundational knowledge of the diversity of management thinking	2
		2. Comprehend the important role played by management in the contemporary healthcare environment	2, 4
		3. Enhance the interpersonal skills necessary for effective leadership	2, 3, 4
		4. Assess the significance of financial management	2
		5. Analyze the concept of human resources and employee motivation	2, 3, 4
		6. Develop lifelong job search skills, with particular emphasis on the ability to market oneself to employers	3
		7. Demonstrate an understanding of the elements involved in conducting an effective job search, including networking, using available resources, and interviewing.	2, 3
IPHS 500B Foundations of Interprofessional Practice			
See Fall, HIPS 515			

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SPRING			
Domain Key: 1. Values and Ethics 2. Roles and Responsibilities 3. Interprofessional Communication 4. Teams and Teamwork			
MPA 600C	General and Systemic Pathology		
See Fall, MPAT 600A			
HAPA 563	Clinical Correlations IV		
		1. Contextualize the role of pathology in the clinical decision making process.	2
		2. Value the importance of medical oncology and surgical oncology within the context of pathology.	2, 4
		3. Comply with proper prosection techniques and recognize circumstances when pathologic processes dictate deviation from said techniques.	2
		4. Recognize the importance of correlation between tissue prosection techniques and histologic diagnoses.	2
		5. Develop an understanding of the role epidemiology plays in the origination of specimens.	2
HAPA 563A	Clinical Correlations IV Lab		
		1. Handle specimens according to universal precautions as presented in Davis	2
		2. Demonstrate appropriate handling of sharps	2
		3. Demonstrate proficiency at taking and critiquing photographs	2
		4. Prosect various animal specimens	2
		5. Develop gross dictations of specimens	2
		6. Formulate gross diagnoses from images and specimens	2
		7. Identify anatomic landmarks on images and specimens	2

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HAPA 553 Seminar IV			
		1. Discuss cancer as a complex group of diseases that are both multi-causal and multifactorial in nature	2, 3, 4
		2. Critically evaluate scholarly writing	1, 3
		3. Use effective delivery style in formal public speaking scenario.	3
HAPA 540 Autopsy Pathology			
		1. Discuss some of the significant points in autopsy history	2, 3
		2. Differentiate between the coroner versus the medical examiner legal systems	2
		3. Explain the importance of understanding the legal issues surrounding an autopsy	2
		4. Analyze the external aspects of a cadaver in order to provide a thorough external examination prior to performing an autopsy	2
		5. Contrast the different types of evisceration techniques	2
		6. Understand the importance of submitting autopsy tissue for histology	2
		7. Understand the importance of ancillary laboratory studies to work up a case	2
		8. Describe the pertinent paperwork to be completed following an autopsy	2
		9. Discuss the basic principles of performing a pediatric autopsy	2
		10. Describe how to perform a perinatal autopsy	2
		11. Discuss the forensic aspects of autopsy	2
		12. Synthesize pertinent medical findings into a Preliminary Anatomic Diagnosis	2

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HAPA 540A Autopsy Pathology Lab			
		1. Perform autopsy related tasks according to universal precautions as presented in Davis	2
		2. Demonstrate appropriate handling of sharps	2
		3. Analyze the external aspects of a cadaver in order to provide a thorough external examination prior to performing an autopsy	2
		4. Demonstrate proficiency at taking photographs	2
		5. Eviscerate a cadaver using the Letulle or Virchow Method	2
		6. Orient organ blocks in a variety of positions	2
		7. Perform the systematic dissection of an organ block	2
		8. Prosect organs from an organ block	2
		9. Prosect organs from a cadaveric evisceration	2
		10. Formulate gross diagnoses from specimens	2
		11. Understand the importance of submitting autopsy tissue for histology	2
		12. Understand the importance of ancillary laboratory studies to work-up a case	2
		13. Synthesize pertinent medical findings into a Preliminary Anatomic Diagnosis	2

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PBBS 504	Neuroscience		
		1. Provide students with a comprehensive knowledge of the structure and function of the human nervous system as a foundation for other courses and clinical experiences in the podiatric medicine, physical therapy, and pathologist assistant curriculum.	2
		2. Provide students with the ability to identify the symptoms associated with the alteration of the normal function of the systems of the human nervous system.	2
		3. Provide Podiatry students with the knowledge required to pass the general anatomy section of the NBPME Part I Exam and the Neuroscience section of the BBS Comprehensive Exam; Physical Therapy students with the knowledge essential for success on the PT licensing exam; and Pathologist Assistant students with knowledge essential for passing the American Society for Clinical Pathology certification exam.	2

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HPAS 551	Leadership in the Healthcare Environment		
		1. The student will apply the appropriate leadership method to a variety of clinical situations based on a thorough evaluation of their own leadership style.	2
		2. The student will develop skills used to facilitate teamwork in the delivery of patient care.	2, 4
		3. The student will learn to effectively provide feedback and evaluation to employees that they supervise.	3, 4
		4. The student will use management tools learned in this class to initiate quality improvement projects in the clinical setting.	2, 3, 4
		5. The student will develop marketing strategies that will effectively promote themselves as a healthcare provider, their role in the practice, and the practice as a whole.	2
		6. The student will relate the historical developments in the healthcare delivery system in the US to the current practice environment and to predictions of future practice challenges.	2
		7. The student will be able to apply risk management procedures to clinical activities in a medical practice.	2
		8. The student will use basic concepts of financial management to develop evidence-based financial proposals.	2
		9. The student will relate the systems of reimbursement in the healthcare system to the development of reimbursement policies that make good business sense.	2

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Course:	Course Name:	Course Goal:	IPEC Core Competency Domain:
HAPA 630-633	Anatomic Pathology Clerkship I-IV		
Surgical Pathology Learning Goals and Objectives			
		1. Outline the standards that the College of American Pathologists (CAP) requires for submitting surgical pathology specimens.	2
		2. Assure correct specimen accessioning.	2
		3. Obtain pertinent clinical information and data required for prosection from the requisition, medical records, consultation with the pathologist(s) and other clinical providers, etc.	2, 3
		4. Identify common situations that require expedited processing of a pathology specimen.	2, 4
		5. Discuss the common indications for intraoperative consultation.	2
		6. Describe gross anatomic features and specimens clearly and concisely in the form of dictation.	2
		7. Identify, under pathologist supervision, tissue to be submitted for frozen section diagnosis, prepare frozen sections competently (e.g., with care, skill, and efficiency, etc.), and effectively manage problems with suboptimal frozen sections.	2
		8. Demonstrate competency (e.g., care, skill, efficiency, etc.) at prosection for routine and complex surgical specimens.	2
		9. Perform special procedures in the surgical pathology laboratory.	2
		10. Manage workflow effectively in the gross room.	2, 4
		11. List procedures for locating a missing specimen such as a block, slide, or tissue.	2
		12. Demonstrate proficiency at taking gross photographs of pertinent findings.	2
		13. Explain the basic principles of informatics in anatomic pathology and effectively utilize the Laboratory Information System (LIS) and local computer network.	2
		14. Perform other related job functions as needed such as laboratory maintenance, administrative tasks, and assisting with conference preparation.	2, 3, 4

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Autopsy Pathology Goals and Objectives

1. Determine whether proper legal authorization for an autopsy procedure has been obtained and the appropriate authorities to contact prior to the autopsy.	1, 2
2. Explain the necessary procedures to ensure the safety of those in the autopsy suite.	2
3. Collect pertinent clinical information and data (e.g., from existing medical records, clinical providers, etc.) to reconstruct the deceased patient's medical history.	2
4. Distill the essential parts of the medical history into likely manner, cause, and mechanism of death.	2
5. Recognize when it is necessary to seek consultation on a case from the attending pathologist(s).	2, 4
6. Conduct systematic and thorough external examinations and in situ organ inspection.	2
7. Demonstrate competency at selecting, preparing, and submitting appropriate gross tissue sections for frozen section analysis and microscopy.	2
8. Demonstrate common evisceration techniques including the Letulle Method, the Virchow Method, as well as brain and spinal cord removal.	2
9. Demonstrate competency (e.g., care, skill, efficiency, etc.) at block and organ dissection.	2
10. Discern abnormalities and/or pathologic changes encountered during the autopsy and dictate or record the findings accurately.	2, 3
11. Obtain biological specimens such as blood, tissue, and toxicology material for analysis.	2
12. Indicate when special studies are needed such as non-routine cultures, special evaluation of bones, sinus cavities, and other tissues not routinely evaluated.	2
13. Demonstrate proficiency at taking gross photographs of pertinent findings.	2
14. Summarize patient information and autopsy findings clearly and concisely for oral and written presentation.	2, 3

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Autopsy Pathology Goals and Objectives (continued)

15. Outline the proper procedure for preparing the body for release and releasing the body to the appropriate mortuary or funeral home representative.	2, 3
16. Perform other related job functions as needed such as laboratory maintenance, administrative tasks, and assisting with conference preparation.	2, 3, 4

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IPEC Program Improvements (as applicable)

Program implemented the use of Individual Development Plans in the Seminar sequence tracks the IPEC core competencies (values and ethics, roles and responsibilities, interprofessional communication & teams and teamwork), with the pilot year being 2018-2019. At the end of the 18-19 AY, the program will review the quality of the incorporation of the IPEC core competencies during their annual curriculum retreat.