

# PAA - PATHOLOGISTS' ASSISTANT

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## **PAA 5020 Applied General Pathology Cr. 2**

Fundamental principles and theories applied to general pathology with special emphasis on disease processes and mechanisms found in adult and pediatric pathology. Offered Spring/Summer.

**Corequisite:** PAA 7250

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program.

## **PAA 5050 Clinical Terminology and Methodology I for the Pathologists' Assistant Cr. 2**

Clinical and medical terminology specific to the pathologists' assistant practice along with associated methodologies used in surgical and autopsy pathology in the second year of the program. Introduction to laboratory grossing methodologies of human organ system of simple pathologic and non-pathologic specimens. Offered Spring/Summer.

**Prerequisite:** PAA 7060 with a minimum grade of C and PAA 7061 with a minimum grade of C

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program.

**Course Material Fees:** \$100

## **PAA 5051 Clinical Terminology and Methodology II for the Pathologists' Assistant Cr. 2**

Clinical and medical terminology specific to the pathologists' assistant practice along with associated methodologies used in surgical and autopsy pathology in the second year of the program. The laboratory component of the course is designed to familiarize students with surgical procedures, the most common surgical specimens received at the bench, and the manner in which such specimens are grossed, inked, sectioned, dictated, and submitted to histology. The use of simulation laboratory sessions for practice of grossing techniques and methodologies of simple to medium complexity specimen(s) will emphasize the step-wise grossing, safety, and dictation of given pathological specimens. Offered Fall.

**Prerequisite:** PAA 7060 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program.

**Course Material Fees:** \$100

## **PAA 5052 Clinical Terminology and Methodology III for the Pathologists' Assistant Cr. 2**

Clinical and medical terminology specific to the pathologists' assistant practice along with associated methodologies used in surgical and autopsy pathology in the second year of the program. The laboratory component continues to familiarize students with surgical procedures, grossing methodologies, and procedural inking, sectioning, and sampling of medium to high complexity of human organ tissues in a simulation gross room laboratory environment, emphasizing the step-wise grossing, safety, and dictation of given pathological specimens. Offered Winter.

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program.

**Course Material Fees:** \$100

## **PAA 5100 Medical Photography and Techniques in Pathology Cr. 2**

Theory of the behavior of light and selection of appropriate lenses; principles of exposure, color, and filters; macro- and microphotography. Adjustment of clinical photographs and student photographs corrected by Adobe Photoshop Professional resulting in a student Eportfolio. Offered Spring/Summer.

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program.

**Course Material Fees:** \$100

## **PAA 5200 Medical Microbiology for Technical Professionals: Pathologists' Assistant Cr. 2**

Infectious diseases affecting major organ systems of the body encountered by the pathologists' assistant. Clinical case study analysis with student presentations. Offered Fall.

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program.

## **PAA 6060 Human Embryology and Pediatric Pathology Cr. 3**

Embryological basis of pediatric and childhood diseases along with adult presentations. Human embryological correlations to clinical settings: case study analysis specific to the pathologists' assistant and clinical evaluation of pediatric pathology. Recognition of anatomical presentations with embryological development in normal and diseased states. Offered Fall.

**Prerequisite:** PAA 7060 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major, minor, or concentration in Pathologists'Assistant Program.

## **PAA 6150 Histochemistry for the Pathologists' Assistant Cr. 4**

Study of techniques specific to the Pathologists' Assistant involved in the preparation of tissues prior to microscopic examination and processing inclusive of embedding, sectioning, preparing frozen sections and performing routine and special stain on a variety of tissues. Offered Winter.

**Prerequisites:** PAA 6560 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program.

**Course Material Fees:** \$200

## **PAA 6420 Laboratory Management and Quality Management in Anatomic Pathology Cr. 2**

Interpersonal and technical management techniques for the clinical and anatomic pathology laboratory settings. Quality management techniques, policies, protocols and best practices for the pathologists' assistant. Safety mandates and protocols as applied to anatomic and surgical pathology. Discussion and analysis of governmental mandates covering laboratory improvement (CLIA). Offered Spring/Summer.

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program.

## **PAA 6560 Human Histology and Clinical Correlations I Cr. 2**

Characteristics and identification of human tissue microanatomy. Functional interpretation of human microstructure. Introduction to tissue classification and frozen sections, as well as the examination of normal and abnormal stained tissue sections prepared from a variety of organ systems allowing for clinical correlations in patient case presentations. Offered Spring/Summer.

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program.

**Course Material Fees:** \$100

## **PAA 6561 Human Histology and Clinical Correlations II Cr. 3**

Characteristics and identification of human tissue microanatomy. Continued appreciation and differentiation of normal and abnormal tissue microscopy in stained tissue sections prepared from a variety of organ systems, with application of clinical correlations in patient case presentations. Offered Fall.

**Restriction(s):** Enrollment is limited to Graduate level students.

**Course Material Fees:** \$100

**PAA 7060 Human Anatomy and Physiology for Pathologists' Assistants Cr. 2**

Detailed comprehensive review of human anatomy and physiology as it pertains to the pathologists' assistant practice. Offered Spring/Summer.  
**Restriction(s):** Enrollment is limited to students with a major in Pathologists' Assistant Program; enrollment is limited to Graduate level students.

**Course Material Fees:** \$350

**PAA 7061 Human Anatomy and Physiology II for the Pathologists' Assistant Cr. 2**

Part two of a detailed comprehensive review of human anatomy and physiology as it pertains to the pathologists' assistant practice with comprehensive examination of anatomical organs and organ systems through the use of human cadaveric prosections, 3D models, computer software applications, medical imaging, and clinical correlations as it pertains to the pathologists' assistant scope of practice. Offered Fall.

**Prerequisite:** PAA 7060 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists' Assistant Program; enrollment is limited to Graduate level students.

**Course Material Fees:** \$100

**PAA 7062 Neuroanatomy for the Pathologists' Assistant Cr. 2**

Comprehensive review of human central nervous system anatomy linking structure to function at the clinical and neurobiological level. Integration of neurocranium and viscerocranium structures with clinical presentations as it pertains to the Pathologists' Assistant practice will be reviewed in detail in the cadaver laboratory. Offered Winter.

**Prerequisite:** PAA 7061 with a minimum grade of B

**Restriction(s):** Enrollment is limited to Graduate level students.

**Course Material Fees:** \$100

**PAA 7200 Introduction to Autopsy Techniques and Forensic Pathology Cr. 2**

Comprehensive review of general and specialized techniques for performing postmortem examinations in both the hospital and medical examiner settings, with emphasis on the external examination, evisceration, and block dissection of the adult, perinatal, and pediatric decedent as it pertains to specific forensic pathology cases and presentations. Offered Winter.

**Prerequisites:** PAA 7060 with a minimum grade of B and PAA 7061 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists' Assistant Program; enrollment is limited to Graduate level students.

**Course Material Fees:** \$350

**Equivalent:** MS 4200

**PAA 7210 Introduction to Autopsy Techniques and Forensic Pathology: Laboratory Cr. 1**

Comprehensive review of general and specialized techniques for performing postmortem examinations in both the hospital and medical examiner settings with emphasis on the external examination, evisceration, and block dissection of the adult, perinatal, and pediatric decedent. Focus on developing techniques for the external examination of adult and pediatric cadaveric specimens, toxicology retrieval, evisceration techniques, and appropriate block dissection methodology and procedures. Offered Winter.

**Prerequisites:** PAA 7060 with a minimum grade of B, PAA 7061 with a minimum grade of B, and PAA 7251 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists' Assistant Program; enrollment is limited to Graduate level students.

**PAA 7250 Clinical Pathology I Cr. 2**

Systemic pathologies affecting the following organ and organ systems: white blood cells, lymph nodes, spleen and thymus, red blood cells and bleeding disorders, peripheral nerve and skeletal muscles, CNS, the skin, and the bones, joints and soft tissue tumors. Concepts of molecular diagnostics are integrated when appropriate. Offered Spring/Summer.

**Corequisite:** PAA 5020

**Restriction(s):** Enrollment is limited to students with a major in Pathologists' Assistant Program; enrollment is limited to Graduate level students.

**PAA 7251 Clinical Pathology II Cr. 3**

Continuation of PAA 5020 and PAA 7250. Systemic pathologies affecting the following organ and organ systems: the blood vessels and heart, the lung, head, and neck, the gastrointestinal tract, liver and gallbladder, and the eye. Concepts of molecular diagnostics are integrated when appropriate. Offered Fall.

**Prerequisite:** PAA 7060 with a minimum grade of B and PAA 7250 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists' Assistant Program; enrollment is limited to Graduate level students.

**PAA 7252 Clinical Pathology III Cr. 3**

Continuation PAA 7250 and 7251. Systemic pathologies affecting the following organ and organ systems: the kidney, the lower urinary tract and male genital system, the female genital tract, the breast, the endocrine system and the pancreas. Concepts of molecular diagnostics are integrated when appropriate. Offered Winter.

**Prerequisite:** PAA 7060 with a minimum grade of B and PAA 7061 with a minimum grade of B and PAA 7251 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists' Assistant Program; enrollment is limited to Graduate level students.

**PAA 7420 Future Trends in Pathology Practice and Education Methodology Cr. 1**

Group discussion of trends associated with healthcare, patient care, technology, legal issues, education methodology, licensure and accreditation issues; medical ethics, safety, medicolegal, and quality management in anatomic, surgical and autopsy pathology are covered. Presentations lead to recommendations for future best practices in a variety of pathology settings. Students present research findings via PowerPoint and in a seminar format. Offered Winter.

**Restriction(s):** Enrollment is limited to students with a major in Pathologists' Assistant Program; enrollment is limited to Graduate level students.

**PAA 7650 Surgical Pathology I Cr. 8**

Application of principles, theories, and clinical practices related to grossing (simple) surgical dissections that address NAACLS competency levels associated with adult and pediatric surgical pathology techniques, specimen photomicrography, as well as develop techniques in the proper handling of specimens for histological processing through varied techniques within a modern instrumental histology laboratory by following quality management techniques, safety mandates, and protocols as applied to anatomic and surgical pathology. Offered Spring/Summer.

**Prerequisite:** PAA 5050 with a minimum grade of B and PAA 7060 with a minimum grade of B and PAA 7250 with a minimum grade of B and PAA 7251 with a minimum grade of B and PAA 7252 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists' Assistant Program; enrollment is limited to Graduate level students.

**Course Material Fees:** \$250

**PAA 7651 Surgical Pathology II Cr. 10**

Application of principles, theories, and clinical practices related to grossing (simple to complex) surgical dissections that address NAACLS competency levels associated with adult and pediatric surgical pathology techniques, specimen photomacrography and photomicrography, as well as develop techniques in the proper handling of specimens for frozen sectioning and histological processing through varied techniques within a modern instrumental histology laboratory, by following quality management techniques, safety mandates, and protocols as applied to anatomic and surgical pathology. Offered Winter.

**Prerequisite:** PAA 5050 with a minimum grade of B and PAA 7060 with a minimum grade of B and PAA 7250 with a minimum grade of B and PAA 7251 with a minimum grade of B and PAA 7252 with a minimum grade of B and PAA 7650 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program; enrollment is limited to Graduate level students.

**Course Material Fees:** \$250

**PAA 7652 Surgical Pathology III Cr. 9**

Application of principles, theories, and clinical practices related to grossing (medium to high complexity) surgical dissections that address NAACLS competency levels associated with adult and pediatric surgical pathology techniques, specimen photomacrography and photomicrography, as well as develop techniques in the proper handling of specimens for frozen sectioning and histological processing through varied techniques within a modern instrumental histology laboratory, by following quality management techniques, safety mandates, and protocols as applied to anatomic and surgical pathology. Offered Winter.

**Prerequisite:** PAA 7651 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program; enrollment is limited to Graduate level students.

**Course Material Fees:** \$250

**PAA 7700 Forensic and Clinical Autopsy Pathology Cr. 5**

Application of principles and technical procedures that address NAACLS competency levels associated with adult and pediatric autopsy as it relates to postmortem examination, dissection and evisceration techniques, toxicology specimen collection and processing, photomicrography of the body and of pertinent findings during the external and internal examination, as well as approaches associated with determining, and reporting, the cause, manner, and mechanism of death. Offered Every Term.

**Prerequisite:** PAA 6060 with a minimum grade of B and PAA 7060 with a minimum grade of B and PAA 7200 with a minimum grade of B

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program; enrollment is limited to Graduate level students.

**Course Material Fees:** \$150

**PAA 7890 Surgical and Forensic Pathology Seminar Cr. 1**

Clinically based capstone seminar course in which students present evidence of entry-level skills in the grossing of simple to complex surgical specimens, in the performance of clinical and forensic autopsies, and in the research project of a clinical-based surgical specimen that highlights the complexity of the specimen and address contemporary issues as a result of said research. The course integrates evidence of professional development and activism attained in the course of the program. Offered Spring/Summer.

**Prerequisite:** PAA 7650 with a minimum grade of B and PAA 7651 with a minimum grade of B

**Corequisite:** PAA 7652

**Restriction(s):** Enrollment is limited to students with a major in Pathologists'Assistant Program; enrollment is limited to Graduate level students.

**PAA 7900 Elective Clinical in Surgical and/or Forensic Pathology Cr. 1-5**

Remedial clinical rotation in surgical pathology or forensic autopsy pathology that fulfills cognitive assessments, content specific assignments or projects, and entry-level expectations of the program. Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate level students.

**PAA 7901 Elective Independent Study in Surgical and/or Forensic Pathology Cr. 1-5**

Remedial independent study in surgical pathology and/or forensic autopsy pathology that fulfills cognitive assessments, content specific assignments or projects, indicative of entry-level expectations of the program. Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate level students.