

COURSE SYLLABUS & SCHEDULE

COURSE: PAS 605 Clinical Experience in Family Medicine

ACADEMIC CREDIT: 2 semester hours

COURSE DESCRIPTION: Four week required rotation in a family medical office clinical setting. Students engage in all aspects of patient care, including history taking, physical examination, and treatment plan design and evaluation. Students' application of patient and family education to treatment and preventive measures is emphasized.

COURSE GOAL: The goal of this course is to provide a foundation for the physician assistant student to prepare to enter into family medicine following graduation. The knowledge and skills developed during this clinical rotation will prepare the student to enter into clinical practice by exposing the student to a wide diversity of patient populations in the family medicine.

PREREQUISITES: Successful completion of the PA program didactic year.

COURSE COORDINATOR:

Faculty Name and Title: Kelli Huesman, MPAS, PA-C, Associate Professor, Director of Clinical Education

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Phone: 937-229-3281

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Office Hours: Variable, please contact directly for an appointment

Contact policies: Available during office hours, or through email

Faculty Name and Title: Sean Haig, MPAS, PA-C, Clinical Faculty

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Office Hours: Variable, please contact directly for an appointment

Contact policies: Available during office hours, or through email

CLINICAL PRECEPTOR: As assigned by clinical faculty

TIME/LOCATION: Offsite at clinical facility, location TBD, see schedule for definitive information

RECOMMENDED TEXTS:

Anatomy and Physiology:

Moini, Jahangir (2020). *Anatomy & Physiology for Health Professionals* (3rd ed). Burlington, MA: Jones & Bartlett Learning. ISBN: 978-1284151978.

Clinical Medicine:

Papadakis, M.A., McPhee, S.J., & Rabow M.W. (2020) *Current Medical Diagnosis and Treatment 2020*. New York, NY: Lange Medical Books/McGraw Hill. ISBN: 978-1260455281.

History and Physical Exam:

Bickley, L (2016). *Bates' Guide to Physical Examination and History Taking* (12th ed). Wolters Kluwer Health/Lippincott Williams & Wilkins. ISBN: 978-1469893419

Labs:

Desai, S., Katta, R. (2020). *Clinician's Guide to Laboratory Medicine* (4th ed. Pocket). Houston, TX: MD2B. ISBN: 978-1937978105.

Pharmacology:

Brenner, G.M. & Stevens, C. (2017). *Brenner and Stevens' Pharmacology* (5th ed). Philadelphia, PA: Elsevier. ISBN: 978-0323391665.

Procedures:

Clinical Procedures for Health Professionals (2017). *Clinical Procedures for Health Professionals* (1st ed). Philadelphia, PA: Jones & Bartlett. ISBN: 978-1284032413

Radiology:

Herring, W. (2020). *Learning Radiology: Recognizing the Basics* (4th ed). Philadelphia, PA: Mosby/Elsevier. ISBN: 978-0323567299.

Study System:

Sedrak, M, & Massey, S. (2011). *Classroom to Clinic Study System: Personal Professor for Clinical Rotations and PANCE/PANRE Review*. Philadelphia, PA: F.A. Davis Company. ISBN 978-0803623538.

Brown, P.C., Roediger, H.L., & McDaniel, M.A. (2014). *Make it Stick: The Science of Successful Learning*. United States of America: Library of Congress Cataloging-in-Publication. ISBN: 978-0674729018.

Research:

Blessing, J.D. & Forister, J.G. (2020). *Introduction to Research and Medical Literature for Health Professionals* (5th ed.). Burlington, MA: Jones and Bartlett Learning. ISBN: 9781284153774.

Dermatology:

Habif, M.D., et al. (2013). *Skin Disease Diagnosis and Treatment* (4th ed.). Philadelphia, PA: Elsevier, Inc. ISBN: 978-0323442220.

Orthopedics:

Armstrong A.D. & Hubbard M.C. (2015). *Essentials of Musculoskeletal Care* (5th ed.). Rosemont, IL: AAOS. ISBN: 978-1625524157.

Hoppenfeld, S. (1976). *Physical Examination of the Spine & Extremities*. Norwalk, CT: Appleton & Lange. ISBN: 978-0838578537.

Pediatrics:

Marcdante, K.J. & Kliegman, R.M. (2019). *Nelson Essentials of Pediatrics*. Philadelphia, PA: Elsevier, Inc. ISBN: 978-0323511452.

Emergency Medicine:

Cline, D.M., et al. (2013). *Tintinalli's Emergency Medicine Just the Facts*. China: McGraw Hill. ISBN: 978-0071744416.

Women's Health:

Casanova R, Chuang A, Goepfert AR, Hueppchen NA, Weiss PM. (2019) *Beckmann and Ling's Obstetrics and Gynecology, (8th ed)*. Philadelphia: Wolters Kluwer. ISBN: 978-1496353092.

Mental Health:

Black, D.W., & Andreasen, N.C. (2014). *Introductory Textbook of Psychiatry*. 6th ed. Arlington, VA: American Psychiatric Publishing. ISBN 978-1-58562-470-6.

OVERALL KNOWLEDGE, SKILLS AND ATTRIBUTES FOR ALL CLINICAL ROTATIONS (SCPEs)

- **Knowledge:**
 - Understand and explain the etiologies, risk factors, underlying pathologic processes and epidemiology for the conditions encountered in Family medicine clinical experience
 - Demonstrates the appropriate history and physical exam skills, identifying normal and abnormal findings, and is able to counsel patients who present for acute, chronic and preventative conditions
 - Adequately formulates a differential diagnosis based on H&P findings and is able to develop and carry out management plan based on the differential
 - Select and interpret appropriate diagnostic or laboratory studies
 - Manage presenting conditions to include understanding the indications, contraindications, side effects, interactions, and adverse reactions of pharmacological and non-pharmacologic agents
- **Skills: Interpersonal and Communication**
 - Appropriately adapts communication style to the context of the individual patient interaction, displaying respect, compassion and integrity, with the ability to show sensitivity and responsiveness to patients' culture, age, gender and disabilities
 - Accurately and adequately document information regarding care process for medical, legal, quality and financial purposes
- **Clinical reasoning and problem solving:**
 - Identifies the appropriate site of care for presenting conditions, including the identification of emergent cases and those requiring referral and admission
- **Professionalism:**
 - Work effectively with preceptor and other health care professionals to provide patient centered care in a family practice setting

- Promptly completes assigned tasks
- Consistently arrives at appointed time
- Recognizes personal learning needs and limitations, seeks to rectify them
- Accepts and uses constructive criticism from preceptor and staff

LEARNING OUTCOMES SPECIFIC FOR FAMILY MEDICINE

ACUTE

- Gather a history and perform an appropriate exam, then formulate a differential diagnosis and management plan for a patient presenting with back pain
- In a patient presenting with respiratory illnesses, perform a history and appropriate exam, then formulate a differential diagnosis and management plan
- Elicit a history and perform an appropriate exam, then formulate a differential diagnosis and management plan for a patient presenting with dysuria/urinary tract symptoms
- Formulate a differential diagnosis after completing a history and physical exam, and then develop a management plan for a patient presenting with acute abdominal pain
- Perform a history and appropriate exam, then formulate a differential diagnosis and management plan for a patient presenting with musculoskeletal symptoms

CHRONIC

- Gather a history and perform an appropriate exam, then formulate a management plan for a patient presenting with new onset and chronic management of diabetes mellitus
- Complete a history and appropriate physical exam, then formulate a management plan for a patient presenting with chronic hypertension
- In a patient presenting with depression/anxiety symptoms, elicit a history and perform an appropriate exam, then formulate a management plan
- In a patient with coronary artery disease/hyperlipidemia, perform a history and appropriate exam, then formulate a management plan

PREVENTIVE

- Counsel patients and formulate appropriate plan for preventative care including recommended age appropriate vaccinations
- Provide counseling to patients and formulate appropriate plan for preventative care including recommended age appropriate screenings. i.e., Mammograms, colonoscopies
- Counsel patients regarding the need for an annual wellness examination and formulate an appropriate plan
- Provide patient education for dietary/exercise management, including identifying cardiovascular risk factors, and formulate an appropriate plan
- Accurately document a full history and physical examination with diagnosis and management plan included

CLINICAL OBJECTIVES

1. Differentiate between disease etiologies, risk factors, underlying pathologic process and epidemiology for common conditions for acute, chronic and preventive patients seen in family medicine
2. Analyze signs and symptoms for commonly seen diseases and disorders encountered in family medicine related to the most frequent presentation for a given disorder.
3. Interpret sufficient, essential, and accurate history to direct an appropriate physical examination and develop correct diagnoses commonly for acute, chronic and preventive patients seen in family medicine
4. Correlate physical findings with patient's history in order to reach a differential diagnosis for a family medicine patient.

5. Manage general medical and surgical conditions seen in family medicine to include understanding the indications, contraindications, side effects, interactions and adverse reactions of pharmacological agents and other relevant treatment modalities in the post-operative setting.
6. Analyze how to order and then interpret diagnostic labs and tests which are commonly used in the family medicine setting to include radiographs, ECGs, laboratory tests.
7. Interpret appropriate interventions for prevention of conditions commonly seen in family medicine
8. Adapt their communication style to the context of all patient interactions in the family medicine environment.
9. Develop reliable, accurate, concise, organized documentation for patient interactions to include a history and physical, routine follow up progress noted, preventive wellness visits.
10. Communicate effectively in both written and verbal format with all members of the family medicine health care team.
11. Conduct respectful interviews of family medicine patients, with empathy and sensitivity.
12. Educate patients and their families regarding present acute and chronic conditions.
13. Counsel patients and their families regarding preventive health care in family medicine, i.e.: lifestyle changes, screenings, or vaccinations.
14. Distinguish between risks, benefits, and alternatives for procedures commonly encountered in family medicine in outpatient settings.
15. Synthesize abnormal physical examination findings for a family medicine patient and correlate these findings to possible diagnoses.
16. Formulate appropriate medical management based on evaluation of the patients who present with an acute medical problem.
17. Develop appropriate medical management based on evaluation of the patients who present with a chronic medical problem.
18. Discern level of care and disposition for patients seen in family medicine.
19. Maintain a respectful attitude toward and work appropriately with preceptors, staff and patients at all times.
20. Analyze personal learning needs and limitations while in the family medicine setting and seeks to rectify them.
21. Effectively use constructive criticism from preceptors and staff to aid in the development of the medical professional.
22. Maintain timely attendance, dress appropriately, and promptly complete assigned tasks.
23. Differentiate between the different types of medical conditions and treatments to include the indications, contraindications, side effects, complications, patient preparation, and patient education of each.
24. Synthesize a management plan to include medications, patient education, activity modifications, dietary considerations, referrals, wound care, and follow-up care.

Teaching Methods:

Teaching methods may include any or all of the following:

1. Direct teaching from preceptors
2. Hospital Grand Rounds
3. Reading assignments

ASSESSMENT CRITERIA

Student competency in the Family Medicine Rotation: Instructional objectives are determined based on the following criteria:

• Written evaluation from preceptor	40%
The preceptor will monitor the student's clinical skills and knowledge progression with a formative Mid-Rotation Evaluation, and will conduct a formal review of the student's performance to determine the student's competence with a summative End of Rotation Evaluation (EOR)	
• PAEA – EOR	40%
• Participation in clinical call back week at End of Rotation	10%
• Mandatory Electronic Entries and Written Assignments	10%
Includes 1 written assignment, weekly reports, student evaluation of preceptor, and patient encounters. EOR Evaluations and Student Evaluations of Preceptor/Site are due no later than 5 pm on the Wednesday following the completion of the rotation.	
TOTAL	100%

This final course grade is a Pass/Fail based on passing the EOR exam with a minimum of a 70%, passing the Final EOR evaluation and completing all the required criteria as directed above.

In order to successfully pass this course the student must:

- Score a minimum of 3 or higher for each competency on the preceptor evaluation. Any students receiving 1's or 2's in the categories of medical knowledge, interpersonal/communication skills, technical and clinical skills, medical decision making, or professionalism may fail the rotation. The final decision will be based on an in-depth conversation with the preceptor, the Director of Clinical Education and the student.
- University of Dayton PA Program utilizes the PAEA EOR exams. The students will take an EOR exam correlating with their current rotation. These exams will require a proctor during the exam, and with the exception of the Orthopedic EOR which is given in Isidore, the testing will be completed through the PAEA Examdriver website. The cost for the EOR exams for each rotation will be covered by the student. The PAEA EOR exams consist of a 120-question exam built on the blueprint and topic list. The exams are peer reviewed by PA educators and statistically validated. The scoring of the PAEA EOR exams are completed on a scaled scoring system. This is based on a nationwide performance of PA students for that specific examination. Those students who fall one standard deviation below the mean will have failed the exam and be required to remediate, see below of remediation details. If the student does not pass the exam, he/she will be required to take a remedial exam within 7 days. The student is required to cover the cost of the remedial exam. The student will be allowed to proceed with the next scheduled rotation without delay. If a student fails both the initial EOR exam and the remedial exam within the same course, this will constitute the failure of the clinical course. Failure of a clinical course will delay the student's progression to graduation. The failed course will be repeated in the following clinical year.

- Participate in the Clinical End of Rotation seminars.
- Submit mandatory electronic entries.

****The final grade/decision in regards to the passing of each Clinical Rotation will be made by the Director of Clinical Education (DCE) based on the mid-rotation and end of rotation evaluations, the results of the EOR exams and the communication held between the DCE and the preceptors working with each student.**

EXPECTED CLINICAL PATIENT AND PROCEDURAL LOGGING:

There are three (3) required areas of clinical requirements that will be documented longitudinally throughout the entire clinical year experience. Students are expected to encounter patients across the life span, as well as patient encounters regarding preventive health care, prenatal visits, emergent, acute, and chronic visits. Additionally, specific medical procedures (foley placement, pap smears, pelvic examination, suture, and IV placement) are required to be performed at a level necessary for clinical practice.

1. Students will perform appropriate history and physical examination of patients in the following age groups across the life span:
 - birth-18; 19-64, and over 65
2. Students will evaluate and recommend appropriate treatment for:
 - preventive health care encounters
 - prenatal encounters
 - emergent encounters
 - acute encounters
 - chronic encounters
 - pre-, intra-, post- operative encounters

- well child encounters
3. Students will efficiently perform the following procedures:
- foley placement
 - pap smears/pelvic examination
 - suture
 - IV placement/venipunctures

Students will track their progress in meeting these requirements by completing the “Clinical Encounter Booklet”. The Clinical Encounter Booklet contains the forms for preceptors to complete rating the student on his/her performance. Due to the large number of expected encounters for evaluating patients throughout the life span a portion of each target number will be used to evaluate completeness. Students’ progress will be reviewed during call back weeks, and if it is determined the student is at risk to not meet the competencies, he/she will meet with the Director of Clinical Education to address these deficiencies in order to meet the requirements prior to anticipated graduation. Please refer to the table below for details regarding the clinical patient and procedural logging:

A passing score of a 3 or above on a Likert scale of (1-5) is required for each evaluated encounter to be considered passing.

Clinical Patient and Procedural Logging	Target Number of Encounters	Minimum Number Required
Life Span		
Birth – 18	25	15
Age 19-64	150	15
Age 65 and above	50	5
Health Care Settings		
Preventive Health	150	15
Prenatal	5	5
Well Child Exams	5	5
Emergent	150	15
Acute	150	15
Chronic	150	15
Pre, intra, post-operative	50	15 (5 apiece)
Well child	5	5
Procedures		
Foley placement	5	5
Pap smears/Pelvic exam	5	5
Suturing	15	15
IV placement/venipuncture	5	5

DISCLAIMER

This syllabus is intended to give the student guidance regarding what will be covered during the clinical rotation and will be followed as closely as possible. However, the instructor reserves the right to modify, supplement, and make changes in the course as necessary to meet course objectives. Every effort will be made to adhere to the clinical schedule but alternations may be necessary due to unforeseen circumstances. Any changes will be announced via email communication.

ACADEMIC INTEGRITY

From **The University of Dayton Academic Honor Code: A Commitment to Academic Integrity:** Regardless of motive, student conduct that is academically dishonest, evidences lack of academic integrity or trustworthiness, or unfairly impinges upon the intellectual rights and privileges of others is prohibited. Cheating on examinations or other graded evaluations consists of willfully copying or attempting to consult a notebook, textbook, or any other source of information not authorized by the instructor; willfully aiding, receiving aid or attempting to aid or receive aid from another student during an examination or other evaluation; obtaining or attempting to obtain copies of any part of an examination or other evaluation (without permission on the instructor) before it is given; having another person take the exam; or any act which violates or attempts to violate the stated conditions of an examination or other evaluation. Cheating on an assignment consists of willfully copying or attempting to copy all or part of another student's assignment or having someone else complete the assignment when class assignments are such that students are expected to complete the assignment on their own. It is the responsibility of the student to consult with the instructor concerning what constitutes permissible collaboration and what materials are allowed to be consulted.

PLAGIARISM STATEMENT

Plagiarism is defined in the University of Dayton Student Handbook.

Plagiarism involves:

- Quoting directly from any source of material including other students' work and materials from research consultants without appropriately citing the source and identifying the quote
- Knowingly citing an incorrect source
- Using ideas (other than information that is common knowledge) from any course of material including other students' work and materials from research consultants without citing the source and identifying the borrowed material/ideas
- Faculty may establish additional guidelines for plagiarism – ignorance is no excuse for plagiarism. Students should be aware of their own responsibilities in appropriately quoting and citing sources used.

Additional information on plagiarism is available through the UD Roesch Library website (<http://library.udayton.edu/faqs/howto/plagiarism.php>).

Students should be aware that the University has access to software designed to detect plagiarized passages and work. This software will be applied randomly or at the instructor's discretion. Detection of plagiarized passages or work can result in disciplinary action.

STUDENTS WITH DISABILITIES

If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact the LTC's Office of Learning Resources (OLR) to discuss reasonable accommodations. Please contact OLR at 937-229-2066 (TTY 937-229-2059 for deaf/hard of hearing), by email at disabilityservices@udayton.edu or stop by OLR in the LTC, room 023 Roesch Library. If you have an Accommodation Letter provided by OLR,

please contact me to discuss. If you need assistance accessing print material including textbooks and electronic material such as PDF documents, please review the OLR website information about alternative formats under Disability Resources.

ON CAMPUS LEARNING SUPPORT

The University of Dayton's Office of Learning Resources (OLR) is a free service for all students seeking to perform their best academically. OLR offers a variety of personalized and structured resources that help students achieve academic excellence, such as tutoring, academic coaching (test taking strategies, time management counseling, and study techniques), Supplemental Instruction (SI), services for international students, and writing support. OLR is located on the ground floor of Roesch Library. If you wish to request a tutor, you must go to go.udayton.edu/tutoring and follow the given instructions. Please contact OLR at 937-229-2066 or learningresources@udayton.edu if you have any questions.

Exam Topic List

The lists below are taken from the PAEA End of Rotation Exam, suggested topic list to study for both the rotation and for the end of rotation exam. This list mirrors the NCCPA blueprint topics and will therefore help prepare students for a successful completion of the PANCE.

Urgent Care	Dermatology, continued
Respiratory failure/arrest	Exanthems
Deteriorating mental status/unconscious patient	Molluscum contagiosum
Allergic reaction/anaphylaxis	Verrucae
Acute abdomen	Cellulitis
Burns	Erysipelas
Third trimester bleeding	Impetigo
Bites/stings	Acanthosis nigricans
Foreign body aspiration	Hidradenitis suppurativa
Cardiac failure/arrest	Lipomas/epithelial inclusion cysts
Fractures/dislocations	Melasma
Sprains/strains	Pilonidal disease
Myocardial infarction	Pressure ulcers
Hypertensive crisis	Urticaria
Pulmonary embolus	Vitiligo
Pneumothorax	Folliculitis
Ingesting harmful substances (poisonings)	Tinea infections
Orbital cellulitis	Pulmonology
Dermatology	Asthma
Dermatitis (eczema, seborrhea)	Bronchitis
Nummular eczema	Chronic obstructive pulmonary disease
Dyshidrosis	Pneumonia
Lichen simplex chronicus	Tuberculosis
Drug eruptions	Lung cancer
Lichen planus	Sleep disorders
Pityriasis rosea	Tobacco use/dependence
Psoriasis	Gastrointestinal/Nutritional
Erythema multiforme	Colorectal cancer/colonic polyps
Stevens-Johnson syndrome	Anal fissure
Toxic epidermal necrolysis	Peptic ulcer disease
Bullous pemphigoid	Gastritis
Acne vulgaris	Gastroenteritis
Rosacea	Diarrhea/constipation
Actinic keratosis	Pancreatitis
Seborrheic keratosis	Inflammatory bowel disease
Lice	Appendicitis
Scabies	Gastrointestinal bleedings
Spider bites	Hemorrhoids
Basal cell carcinoma	Bowel obstruction
Kaposi sarcoma	Viral hepatitis
Melanoma	Jaundice
Alopecia	Cholecystitis/cholelithiasis
Onychomycosis	Cirrhosis
Paronychia	Giardiasis and other parasitic infections
Condyloma acuminatum	Hiatal hernia
Tinea versicolor	Gastroesophageal reflux disease

Gastrointestinal/Nutritional continued	Cardiovascular
Irritable bowel syndrome	Hypertension
Esophagitis	Coronary vascular disease
ENT/Ophthalmology	Peripheral vascular disease
Pharyngitis/tonsillitis	Arrhythmias
Acute/chronic sinusitis	Endocarditis
Aphthous ulcers	Hyperlipidemia
Blepharitis	Hypertriglyceridemia
Conjunctivitis	Angina
Dacryocystitis	Congestive heart failure
Hordeolum	Chest pain
Labyrinthitis	Valvular disease
Tinnitus	Orthopedics/Rheumatology
Laryngitis	Acute and chronic lower back pain
Otitis externa	Costochondritis
Otitis media	Bursitis/tendonitis
Tympanic membrane perforation	Rheumatoid arthritis
Ectropion	Reactive arthritis
Entropion	Osteoarthritis
Corneal abrasion	Gout
Corneal ulcer	Sprains/strains
Glaucoma	Ganglion cysts
Hyphema	Systemic lupus erythematosus
Macular degeneration	Osteoporosis
Papilledema	Fibromyalgia
Pterygium	Plantar fasciitis
Retinal detachment	Overuse syndrome
Retinal vascular occlusion	Endocrinology
Retinopathy	Diabetes mellitus
Cholesteatoma	Adrenal insufficiency
Meniere disease	Cushing disease
Allergic rhinitis	Hyperthyroidism
Epistaxis	Hypothyroidism
Nasal polyps	Obstetrics/Gynecology
Peritonsillar abscess	Dysmenorrhea
Parotitis	Dysfunctional uterine bleeding
Sialadenitis	Vaginitis
Urology/Renal	Pelvic inflammatory disease
Hernias	Breast mass
Cystitis	Breast cancer
Pyelonephritis	Cystocele
Glomerulonephritis	Rectocele
Nephrolithiasis	Menopause
Benign prostatic hypertrophy	Intrauterine pregnancy
Prostatitis	Contraception
Epididymitis	Cervical cancer
Gonorrhea	Spontaneous abortion
Chlamydia	
Urethritis	
Orchitis	
Balanitis	
Testicular cancer	

Neurology	Infectious Diseases
Dizziness	Mononucleosis
Vertigo	Lyme disease
Syncope	Human immunodeficiency virus
Seizure disorders	Influenza
Transient ischemic attack	Meningitis
Cerebral vascular accident	Salmonellosis
Alzheimer disease	Shigellosis
Parkinson disease	
Essential tremor	
Bell palsy	
Dementia	
Delirium	
Headaches (cluster, migraine, tension)	
Hematology	
Anemia	
Leukemia	
Thrombocytopenia	
Clotting disorders	
Lymphomas	
Polycythemia	
Psychiatry/Behavioral Medicine	
Major depressive disorder	
Anxiety disorders	
Panic disorder	
Specific phobia	
Posttraumatic stress disorder	
Insomnia disorder	
Anorexia nervosa	
Bulimia nervosa	
Substance use disorders	
Spouse or partner neglect/violence	
Suicide	
Biopolar disorders	

DATE OF SYLLABUS REVISION: 11/11/2021, DCE