The University of Texas at Arlington College of Nursing
Graduate Program
N5313 - Clinical Procedures for Advanced Practice Nurses (APNs)
(3 credit hours, 2-3)
Tuesdays 9am – 4pm and as scheduled
Pickard Hall, Room 227

INSTRUCTORS: 
Vicki Patrick, MS, APRN, BC, ACNP, CEN, FAEN
Clinical Instructor/Lead Teacher
Office: #630 - Pickard Hall
Office Hours: By appointment
Office Phone: (817) 272-2776
Office Fax: (817) 272-5006
Campus Mailbox: 19407
E-mail: vpatrick@uta.edu
Web Site:
http://www.uta.edu/nursing/faculty/vpatrick.php

Sara Duvall, MSN, FNP, ENP
Clinical Instructor
Office # 624-A
Office Hours: By Appointment
Office Phone: (817) 272-2776
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COURSE WEB SITE OR
WORLD WIDE WEB SITE:
http://www.uta.edu/nursing

COURSE PREREQUISITES:
NURS 5334 Advanced Pharmacology

REQUIRED 

TEXTBOOKS/EQUIPMENT:


SUPPLEMENTAL TEXTBOOKS:  

COURSE DESCRIPTION:  
A theory and clinical procedures course designed for the APN to acquire skills and procedures in the clinical-management of selected clients.

STUDENT LEARNING OUTCOMES:  
1. Demonstrate selected advanced practice procedures in a simulated and actual patient environment.
2. Demonstrate knowledge of federal guidelines regulating procedures in clinical settings.
4. Interpret diagnostic test data.

ATTENDANCE AND DROP POLICY:  
- Regular class attendance and participation is expected of all students.
- This is a clinical course focused on skill acquisition. Absence from a class limits the students’ ability to learn and practice these skills. Any absences will result in a decrease in course grade based on requirements missed. There are no make-up labs since experts are only available once a semester.
- Students are responsible for all missed course information.

Graduate students who wish to change a schedule by either dropping or adding a course must first consult with their Graduate Advisor. Regulations pertaining to adding or dropping courses are described below. Adds and drops may be made through late registration either on the Web at MyMav or in person through the student’s academic department. Drops may occur until a point in time two-thirds of the way through the semester, session, or term. The last day to drop a course is listed in the Academic Calendar available at [http://www.uta.edu/uta/acadcal](http://www.uta.edu/uta/acadcal).

1. A student may not add a course after the end of late registration.
2. A student dropping a graduate course after the Census Date but on or before the end of the 10th week of class may with the agreement of the instructor, receive a grade of W but only if passing the course with a C or better average. A grade of W will not be given if the student does not have at least a C average. In such instances, the student will receive a grade of F if he or she withdraws from the class. Students dropping a course must: (1)
complete a Course Drop Form (available online http://www.uta.edu/nursing/MSN/drop_resign_request.pdf or Graduate Nursing office rooms 605 or 606); (2) obtain faculty signature and current course grade; and (3) submit the form to Graduate Nursing office rooms 605 or 606.

3. A student desiring to drop all courses in which he or she is enrolled is reminded that such action constitutes withdrawal (resignation) from the University. The student must indicate intention to withdraw and drop all courses by filing a resignation form in the Office of the Registrar or by: (1) Completing a resignation form (available online http://www.uta.edu/nursing/MSN/drop_resign_request.pdf or Graduate Nursing office rooms 605 or 606; (2) obtaining faculty signature for each course enrolled and current course grade; (3) Filing the resignation form in the College of Nursing office room 606 or 606; and (4) Filing the resignation form in the Office of the Registrar in Davis Hall room 333.

4. In most cases, a student may not drop a graduate course or withdraw (resign) from the University after the 10th week of class. Under extreme circumstances, the Dean of Graduate Studies may consider a petition to withdraw (resign) from the University after the 10th week of class, but in no case may a graduate student selectively drop a course after the 10th week and remain enrolled in any other course. Students should use the special Petition to Withdraw for this purpose. See the section titled Withdrawal (Resignation) From the University for additional information concerning withdrawal.

Last Day to Drop: July 21, 2011

TENTATIVE LECTURE/TOPIC SCHEDULE (COURSE CONTENT):

1. Diagnostic / clinical radiology
2. Diagnostic Imaging Testing
3. Advanced 12-lead EKG
4. Orthopedic procedures / splinting
5. Principles of suturing with local anesthesia / wound care
6. Laboratory medicine / microscopy
7. Respiratory diagnostics/pulmonary function testing
8. Coding  
9. Pulmonary Function testing  
See Class Schedule for class topics presented this semester  

SPECIFIC COURSE REQUIREMENTS:  
1. Required laboratory attendance/participation (skills lab)  
2. Exams (2)  
3. Evidence Based Paper  
4. Radiology on line practice assignment  

TEACHING METHODS/STRATEGIES:  
1. Lecture and group discussion  
2. Case studies  
3. Skills lab (hands on)  
4. On line assignment  

COURSE EVALUATION & FINAL GRADING:  
1. Exam #1 25%  
2. Exam #2 25%  
3. Evidence Based Paper 30%  
4. Class Attendance & Check-offs 20%  
5. Radiology on line practice assignment (Pass/Fail)  
 **Total 100%**  

**Course Grading Scale**  
A = 92 to 100  
B = 83 to 91  
C = 74 to 82  
D = 68 to 73  
F = below 74  

Final grade will be rounded up if .5 or above (e.g. 91.5 = A; 91.49=B)  

STATUS OF RN LICENSURE:  
All graduate nursing students must have an unencumbered license as designated by the Board of Nursing (BON) to participate in graduate clinical nursing courses. It is also imperative that any student whose license becomes encumbered by the BON must immediately notify the Associate Dean for the MSN Program, Dr. Mary Schira. Failure to do so will result in dismissal from the Graduate Program. The complete policy about encumbered licenses is available online at: [www.bon.state.tx.us](http://www.bon.state.tx.us)  

MSN GRADUATE STUDENT DRESS CODE:  
Policy: **The University of Texas at Arlington College of Nursing expects students to reflect professionalism and maintain high standards of appearance and grooming in the clinical setting.** Clinical faculty has final judgment on the appropriateness of student attire and corrective action for
dress code infractions. Students not complying with this policy will not be allowed to participate in clinical.

Please View the College of Nursing Student Dress Code on the nursing website: www.uta.edu/nursing.

**UNSAFE CLINICAL BEHAVIORS:** Students deemed unsafe or incompetent will fail the course and receive a course grade of “F”. *Any of the following behaviors constitute a clinical failure:*

1. Fails to follow standards of professional practice as detailed by the Texas Nursing Practice Act * (available at www.bon.state.tx.us)
2. Unable to accept and/or act on constructive feedback.
3. Needs continuous, specific, and detailed supervision for the expected course performance.
4. Unable to implement advanced clinical behaviors required by the course.
5. Fails to complete required clinical assignments.
6. Falsifies clinical hours.
7. Violates student confidentiality agreement.

*Students should also be aware that violation of the Nursing Practice Act is a “reportable offense” to the Texas Board of Nursing.*

**BLOOD AND BODY FLUIDS EXPOSURE:** A Health Verification form was signed by all MSN students at start of the program documenting personal health insurance coverage. All MSN students have mandatory health insurance and will need to manage exposure to blood and fluids. Current CDC guidelines can be found at: http://www.cdc.gov/.

**CONFIDENTIALITY AGREEMENT:** You signed a Confidentiality Form in orientation and were provided a copy of the form. Please take your copy of this Confidentiality Form with you to your clinical sites. Please do not sign other agency confidentiality forms. Contact your faculty if the agency requires you to sign their confidentiality form.

**GRADUATE STUDENT HANDBOOK:** Students are responsible for knowing and complying with all policies and information contained in the Graduate Student handbook online at: http://www.uta.edu/nursing/handbook/toc.php
AMERICANS WITH DISABILITIES ACT: The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 92-112 - The Rehabilitation Act of 1973 as amended. With the passage of federal legislation entitled Americans with Disabilities Act (ADA), pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty of their need for accommodation and in providing authorized documentation through designated administrative channels. Information regarding specific diagnostic criteria and policies for obtaining academic accommodations can be found at www.uta.edu/disability. Also, you may visit the Office for Students with Disabilities in room 102 of University Hall or call them at (817) 272-3364.

STUDENT SUPPORT SERVICES: The University of Texas at Arlington supports a variety of student success programs to help you connect with the University and achieve academic success. These programs include learning assistance, developmental education, advising and mentoring, admission and transition, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at 817-272-6107 for more information and appropriate referrals.

STUDENT CODE OF ETHICS: The University of Texas at Arlington College of Nursing supports the Student Code of Ethics Policy. Students are responsible for knowing and complying with the Code. The Code can be found in the student Handbook online: http://www.uta.edu/nursing/handbook/toc.php

ACADEMIC INTEGRITY: It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with
University regulations and procedures. Discipline may include suspension or expulsion from the University.

"Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents’ Rules and Regulations, Series 50101, Section 2.2)

As a licensed registered nurse, graduate students are expected to demonstrate professional conduct as set forth in the Texas Board of Nursing rule §215.8. In the event that a graduate student holding an RN license is found to have engaged in academic dishonesty, the college may report the nurse to the Texas BON using rule §215.8 as a guide.

PLAGIARISM:

Copying another student’s paper or any portion of it is plagiarism. Additionally, copying a portion of published material (e.g., books or journals) without adequately documenting the source is plagiarism. If five or more words in sequence are taken from a source, those words must be placed in quotes and the source referenced with author’s name, date of publication, and page number of publication. If the author’s ideas are rephrased, by transposing words or expressing same idea using different words, the idea must be attributed to the author by proper referencing, giving the author’s name and date of publication. If a single author’s ideas are discussed in more than one paragraph, the author must be referenced at the end of each paragraph. Authors whose words or ideas have been used in the preparation of a paper must be listed in the references cited at the end of the paper. Students are encouraged to review the plagiarism module from the UT Arlington Central Library via http://library.uta.edu/tutorials/Plagiarism

BOMB THREATS:

If anyone is tempted to call in a bomb threat, be aware that UTA will attempt to trace the phone call and prosecute all responsible parties. Every effort will be made to avoid cancellation of presentations/tests caused by bomb threats. Unannounced alternate sites will be
available for these classes. Your instructor will make you aware of alternate class sites in the event that your classroom is not available.

E-CULTURE POLICY: The University of Texas at Arlington has adopted the University email address as an official means of communication with students. Through the use of email, UT-Arlington is able to provide students with relevant and timely information, designed to facilitate student success. In particular, important information concerning department requirements, registration, financial aid and scholarships, payment of bills, and graduation may be sent to students through email. All students are assigned an email account and information about activating and using it is available at www.uta.edu/email. Students are responsible for checking their email regularly.

NO GIFT POLICY: In accordance with Regent Rules and Regulations and the UTA Standards of Conduct, the College of Nursing has a “no gift” policy. A donation to one of the UTA College of Nursing Scholarship Funds, found at the following link: http://www.uta.edu/nursing/scholarship_list.php would be an appropriate way to recognize a faculty member's contribution to your learning. For information regarding Scholarship Funds, please contact the Dean’s office.

GRADUATE COURSE SUPPORT STAFF:

Roshanda Marks, Senior Office Assistant
Office: 610 – Pickard Hall
Phone: (817) 272-2776, Ext. 24856
E-mail: r_marks@uta.edu

Felicia Chamberlain, Administrative Assistant I
Office # 515 – Pickard Hall (817) 272-0659, ext 20659
Email: chamberl1@uta.edu

LIBRARY INFORMATION:

Helen Hough, Nursing Librarian
Phone: (817) 272-7429
E-mail: hough@uta.edu
Research Information on Nursing:
http://libguides.uta.edu/nursing
MISCELLANEOUS INFORMATION:

Inclement Weather (School Closing) Inquiries:
Metro (972) 601-2049
Fax Number - UTA College of Nursing: (817) 272-5006
Attn: Graduate Nursing Programs Office
UTA Police (Emergency Only): (817) 272-3003

Mailing Address for Packages:
Attn: Graduate Nursing Programs Office
UTA College of Nursing
c/o Vicki Patrick, MS, RN, ACNP-BC, CEN, FAEN
411 S. Nedderman Drive
Pickard Hall Box 19407
Arlington, Texas 76019-0407
The course grade is designated for attendance AND participation in laboratory exercises.

Attendance will be taken for each morning and afternoon class/laboratory session. It is the student’s responsibility to sign in on time for each class session. Excessive tardiness will result in the deduction of attendance points.

Attendance at every class session is required; if a student cannot come to class, the student is expected to communicate with the Faculty concerning a reason for absence. Students are responsible for obtaining class notes from a colleague. Course Faculty will determine if the reason for absence is excused or unexcused. If unexcused, attendance points will be deducted from the course grade.

Active participation in course labs is required. If Faculty determines a student is not participating, attendance points will be deducted from the course grade.

Each course has laboratory sessions with supervised check-off requirements. If a student misses a laboratory check-off, the student cannot complete the course until a make-up laboratory is successfully completed. If a laboratory make-up cannot be scheduled during the enrollment semester, the student will receive a grade of an “Incomplete” for the course and will be required to complete laboratory objectives in a future semester in order to resolve the Incomplete status and receive a final course grade.

Check-off labs:
- Radiology
- Suturing
- Circulation procedures (5314)
- Respiratory procedures (5314)
- Splinting
- Surgical Asepsis -OR Skills (5314)
- Others, as assigned (5313/5314)

Updated 5/11 vp
Purpose: The purpose of the short paper (maximum 3 pages) is to discuss current evidence based practice in a specific aspect of care in the health care delivery environment.

Content: Select or write a skill based protocol/procedure for laceration wound preparation OR local anesthesia for lacerations. Attach the selected protocol/procedure as an appendix to your paper. For the selected protocol/procedure summarize and evaluate at least 2 research studies that support the protocol/procedure.

Criteria/Grading: To evaluate the research studies, the paper should review each research and (at minimum) discuss the following:

a. Purpose/problem statement of the study
b. Study design
c. Study sample including appropriateness of sample to population of student’s interest
d. How data were collected including any apparent strengths/weaknesses related to data collection
e. Results of the study
f. Discussion of the results including specifically how the results are integrated into the procedure/protocol.
g. Organization of information, APA format.
N5313 Clinical Procedures for APNs
Evidence Based Practice Paper Grading Criteria

_____ Attached protocol/procedure appropriate to paper requirements (5 points)

Research Studies review of the research and (at minimum) discuss the following: (90 points):

#1 #2

____ __ Purpose/problem statement of the study (15 points)

____ __ Study design (10 points)

____ __ Study sample including appropriateness of sample to population of student’s interest. (10 points)

____ __ How data were collected including any apparent strengths/weaknesses related to data collection (20 points)

____ __ Results of the study (15 points)

____ __ Discussion of the results including specifically how the results are integrated into protocol/procedure. (20 points)

Organization; APA

_____ Organization of information, APA format. (5 points)
1. Access the module. It is found at [http://www.med-ed.virginia.edu/courses/rad/](http://www.med-ed.virginia.edu/courses/rad/)

2. Complete the Chest Radiology module before the Radiology Class (second class)

3. Select your major and complete these modules during the semester:

   - **ACNP Majors and Adult/Geri majors:**
     - Chest, Thoracic, Abdominal, MSK, Neuro

   - **PNP, ACPNP, NNP (NNPs may omit testicular):**
     - Chest Module, GI module, Testicular US, all of MSK and all of Pediatric

   - **Family NP:**
     - Chest, GI, GU, Testicular US, MSK, also complete the MSK section of the Pediatric module

4. To verify completion of the assignment, on the day of the Final Exam bring to the exam a hard copy of the post test as assigned by major:

   - **ACNP/Adult/Geri:** Head CT Final Quiz
   - **PNP, ACPNP/NNP:** Pedi MSK part II
   - **Family:** Quiz following Colon Section of GI

**You only need to bring one (1) post test hard copy for verification**
Class Content Objectives

**Basic Radiology**
- Select appropriate procedures based on patient condition
- Demonstrate ability to read X-Ray’s of common chest, abdomen and musculoskeletal problems.

**Coding**
- Apply appropriate coding for selected clinical procedures and patient encounters.
- Develop competencies utilizing the current coding system in clinical practice

**Procedure Documentation**
- Discuss guidelines for pre-procedure notes, consents and procedure notes.

**Microscopy**
- Describe CLIA regulations as applies to outpatient care practice.
- Identify various microorganisms.

**Noninvasive and Invasive Imaging**
- Apply understanding of how to choose the proper imaging test
- Demonstrate appropriate choices relative to particular testing needs in select patients

**Suturing/Derm. Procedures**
- Demonstrate skills in simple suturing and local anesthesia techniques.
- Apply knowledge to incise and drain infected abscesses.
- Perform simple shave, excisional or punch biopsies

**Advanced EKG Analysis**
- Analyze an EKG for common elements (myocardial ischemia, infarction, injury; hypertrophy, axis deviation, drug effects, etc.) to diagnose abnormalities.
- Apply the knowledge of the heart’s conduction system by interpreting examples of abnormal EKG’s

**Pulmonary Function**
- Identify the purpose of pulmonary function testing in various causes of respiratory distress.
- Demonstrate ability to evaluate the current status of respiratory function in a variety of patients.

**Splinting**
- Select types of splints for extremity injuries.
- Demonstrate the application of various splints to upper and lower extremities.
**Wound Care**

- Evaluate and treat common dermatological wounds.
- Demonstrate proper debridement technique.
## Required Readings/Resources

Classes listed in alphabetical order by Topic—refer to Class Schedule

* = readings not in required text; copy available for check out in NP office (Room 610)

<table>
<thead>
<tr>
<th>Class Topic</th>
<th>Required Readings</th>
<th>Optional Resources</th>
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<tbody>
<tr>
<td>Advanced EKG</td>
<td>Students are expected to have knowledge of basic EKG analysis and arrhythmias as a prerequisite for this class.&lt;br&gt;&lt;br&gt;For class, read: Huszar, Chapters 11, 12, 13, 14 (p. 290-295), 15, 16</td>
<td>Review Huszar, Chapters 1-10 as needed.&lt;br&gt;Review Pfenninger and Fowler, Chapter 89&lt;br&gt;There are many other good books and websites for EKG review: Dubin D. (2007), <em>Rapid Interpretation of EKGs</em> <a href="http://www.theMDSite.com">www.theMDSite.com</a>&lt;br&gt;Aehlert, B. (2009) <em>ECGs Made Easy.</em>&lt;br&gt;*Adams-Hamoda M, Caldwell, M, Stotts N, &amp; Drew, B. (2003) Factors to consider when analyzing 12 Lead electrocardiograms for evidence of acute myocardial ischemia. <em>American Journal of Critical Care,</em> 12, 9-16.</td>
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</tbody>
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Pfenninger & Fowler, Chapter 160 |
| Non Invasive Radiology / Invasive Radiology | Herring, Chap. 14, 20  

**Notes:**
- [www.indyrad.iupui.edu](http://www.indyrad.iupui.edu) (Indiana Univ.)
- [www.omed.pitt.edu](http://www.omed.pitt.edu) (Univ. of Pittsburgh)
- [www.rad.washington.edu](http://www.rad.washington.edu) (Univ. of Washington Dept. of Radiology)
- [www.sbu.ac.uk](http://www.sbu.ac.uk) (South Bank Univ. B UK)
- [http://gentili.net](http://gentili.net) (Dr. A. Gentili, UCLA Dept. of Radiological Sciences)
<table>
<thead>
<tr>
<th>Procedure Documentation</th>
<th>Pfenninger and Fowler, Appendix B, Appendix C, Appendix J</th>
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<tbody>
<tr>
<td>Pulmonary Function Testing</td>
<td>Pfenninger and Fowler, Chapter 91</td>
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<td>* Petty, T. and Enright, P. (2003). Simple Office Spirometry for Primary Care Practitioners. Available at: <a href="http://www.nlhep.org/resources.html">www.nlhep.org/resources.html</a> (information is early in the Resources secton)</td>
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<td>*National Heart, Lung and Blood Institute (2007, August 8) Guidelines for the diagnosis and management of asthma (EPR-3); Section 3, Component 1: Measures of asthma assessment and monitoring. 47-48. <a href="http://www.nhlbi.nih.gov/guidelines/asthma">www.nhlbi.nih.gov/guidelines/asthma</a></td>
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<tr>
<td>Splinting</td>
<td>Pfenninger and Fowler, Chapters 186, 187, 188</td>
<td>Colyer &amp; Earhardt, Chapters 35,36,37</td>
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<td>Suturing/Derm Procedures</td>
<td>Pfenninger &amp; Fowler: Chapters 4, 5, 8, 10,20, 21, 22. 23, 24. 25, 29, 32, 34, 35, 37, 42, Appendix A,</td>
<td>Colyer &amp; Ehrhardt: Chapters 1,2,4,10,13,15,16,18,22,23</td>
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<tr>
<td>Wound Management</td>
<td>Pfenninger &amp; Fowler, Chapter 44, 45, 222</td>
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<tr>
<td>June 7 9:00</td>
<td>227</td>
<td>Course Introductions</td>
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<td>9:30-10:30</td>
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<td>2:30-3:30</td>
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<td>June 14 9:00-4:00</td>
<td>227</td>
<td>Radiology Chest, abdominal, bone x-rays</td>
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<td>June 21 9-12</td>
<td>LRC</td>
<td>Respiratory Procedures Oral airways, LMA, Tracheal intubation</td>
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<td>Respiratory Procedures <strong>watch Lecture on Class Rev/Echo BEFORE lab</strong></td>
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<td>227</td>
<td>Oxygen Therapy; Ventilators Ventilator modes/settings ; vent management; ABG</td>
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<td>June 28 9-4</td>
<td>227</td>
<td>Suturing/Derm.. procedures Suture techniques, local anesthesia, biopsy</td>
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N5313 and N5314 Course Class Schedule- Summer 2011 ****Final Schedule will be posted on Blackboard **
Revised: 5/6/11
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<tr>
<th>Date</th>
<th>Topic</th>
<th>Content</th>
<th>FNP</th>
<th>ANP</th>
<th>GNP</th>
<th>PNP</th>
<th>ACNP</th>
<th>ACPNP (post-Masters cert.)</th>
<th>PNP &amp; ACPNP dual majors</th>
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<th>NNP</th>
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<tr>
<td>July 5</td>
<td>Advanced EKG</td>
<td>Anatomy for 12 Lead ekg, axis, hypertrophy, BBB</td>
<td>X</td>
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<td>Adult EKG</td>
<td>Injury/infarct; drug effects</td>
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<td>EKG-</td>
<td>general/advanced EKG for pedi</td>
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<td>LRC and 216</td>
<td>Exam I</td>
<td>X</td>
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<td>9-11</td>
<td>Microscopy</td>
<td>Spun urine; vaginal smears; other microscopy skills; CLIA</td>
<td>X</td>
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<td>July 19</td>
<td>Pulmonary Function</td>
<td>Peak flow meters; PFT procedure; equipment; PFT analysis; hand held inhalers</td>
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<td>Non invasive &amp;</td>
<td>CT, MRI ultrasound, Doppler, embolization, angio, indications, contraindications</td>
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<td>PNP &amp; ACPNP dual majors</td>
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<td>July 21</td>
<td>Last day to drop/ withdraw</td>
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<tr>
<td>July 26</td>
<td>Splinting</td>
<td>Splinting extremities, ace wrap</td>
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<td>Wound Care</td>
<td>Wound therapy principles, devices, techniques, products</td>
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<td>Aug 2</td>
<td>Surgical Asepsis-Group A</td>
<td>Sterile technique; gowning and gloving</td>
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<td>Circulation Procedures; Lumbar Puncture <strong>watch Lecture on Class Rev/Echo BEFORE lab</strong></td>
<td>Insertion of lines: int. jugular, arterial, femoral, umbilical, ext.jug, interosseous; chest tubes, lumbar puncture, needle thoracostomy</td>
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<td>227</td>
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<td>Aug 9</td>
<td>LRC and 216</td>
<td>FINAL EXAM Time TBA</td>
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*Bring Radiology verification quiz to exam*