UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Spring 2016

COURSE NUMBER NGR 6050C – Section 2E19

COURSE TITLE Neonatal Nurse Practitioner: Diagnostics & Procedures

CREDITS 1 [0.5 credits didactic, 0.5 credits laboratory (24 laboratory hours)]

PLACEMENT DNP Program: Neonatal Nurse Practitioner Track

PREREQUISITES NGR6054C Advanced Neonatal Health Assessment and Diagnostic Reasoning

NGR 6636 Health Promotion and Role Development in Advanced Practice Nursing

NGR 6140 Physiology and Pathophysiology for Advanced Nursing Practice

NGR 6101 Theory and Research for Nursing

COREQUISITES NGR 6320 Neonatal Nurse Practitioner 1

NGR 6320L Neonatal Nurse Practitioner Clinical 1

NGR 6371 Neonatal Pharmacotherapeutics for Advanced Practice Nursing

NGR 6850 Research Methods and Utilization for Nursing

# FACULTY

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| Jacqui Hoffman, DNP, NNP-BC  [hoffmanjm@ufl.edu](mailto:hoffmanjm@ufl.edu) | HPNP 2225 | Cell (727) 709 9211 | Office hours: Virtual on Adobe Connect, Monday. 1:00–2:00 PM; additional hours by appt |
| Clinical Faculty  Leslie A. Parker, PhD, NNP-BC [parkela@ufl.edu](mailto:parkela@ufl.edu) | HPNP 2227 | (352) 273-6384  Beeper#:  (352) 413-3212  Cell (352) 215 9360 | Thurs., 10:00 – 12:00  Virtual on Adobe Connect, Tues., 1:00-1:30 |

COURSE DESCRIPTION This course provides theoretical knowledge and emphasizes psychomotor skills necessary to provide selected advanced practice nursing interventions utilized in the care of critically ill and/or premature neonate/infants. Focus is on the provision of safe and effective advanced practice nursing care to neonate/infants in the newborn nursery and NICU.

COURSE OBJECTIVES Upon completion of this course, the student will be able to:

1. Demonstrate proficiency in selected advanced practice nursing diagnostic skills and procedures.
2. Apply principles of safety when providing selected advanced practice nursing diagnostic skills and procedures.
3. Demonstrate utilization of critical thinking and evidenced based practice in providing and interpreting selected advanced practice nursing diagnostic skills and procedures.

COURSE SCHEDULE

E-Learning in Canvas is the course management system that you will use for this course. E-Learning in Canvas is accessed by using your Gatorlink account name and password at <https://lss.at.ufl.edu/>. There are several tutorials and student help links on the E-Learning login site. If you have technical questions call the UF Computer Help Desk at 352-392-HELP or send email to [helpdesk@ufl.edu](mailto:helpdesk@ufl.edu).

It is important that you regularly check your Gatorlink account email for College and University wide information and the course E-Learning site for announcements and notifications.

Course websites are generally made available on the Friday before the first day of classes.

TOPICAL OUTLINE

1. Central Venous Catheterization
   1. UVC
   2. PICC
2. Central Artery Catheterization
   1. PAL
   2. UAC
3. X-ray principles and interpretation
4. Airway management
5. Chest tube insertion
6. Lumbar puncture
7. Suprapubic aspiration
8. Thoracentesis

9. Arterial and venous blood draws

TEACHING METHODS

Skills demonstrations, audiovisual materials, simulated practice, web-enhanced instruction, lecture, and discussion

LEARNING ACTIVITIES

Online lectures, web-based activities, assigned readings, decision-making using simulated clinical scenarios, skills practice and return performance demonstration in the laboratory setting.

EVALUATION METHODS/COURSE GRADE CALCULATION

Minimum Required Contact Hours for Laboratory: 24

Competency demonstration examinations 50%

Students must successfully complete demonstration exams at on-campus skills lab. Demonstration exams will be announced at beginning of term

Interpretation radiologic assessments 50%

Completion of 10 radiological modules at 5% each.

Total 100%

All assignments will be graded within a 2 week time period.

MAKE UP POLICY

Attendance at onsite skills lab is mandatory; make-up will only be arranged in the event of extreme emergency that will require written documentation and the course faculty must be notified in advance.

GRADING SCALE/QUALITY POINTS

A 95-100 (4.0) C 74-79\* (2.0)

A- 93-94 (3.67) C- 72-73 (1.67)

B+ 91- 92 (3.33) D+ 70-71 (1.33)

B 84-90 (3.0) D 64-69 (1.0)

B- 82-83 (2.67) D- 62-63 (0.67)

C+ 80-81 (2.33) E 61 or below (0.0)

\* 74 is the minimal passing grade

For more information on grades and grading policies, please refer to University’s grading policies: <http://gradcatalog.ufl.edu/content.php?catoid=4&navoid=907#grades>

University and College of Nursing Policies:

Please see the College of Nursing website for a full explanation of each of the following policies - <http://nursing.ufl.edu/students/student-policies-and-handbooks/course-policies/>.

Attendance

Academic Honesty

UF Grading Policy

Accommodations due to Disability

Religious Holidays

Counseling and Mental Health Services

Student Handbook

Faculty Evaluations

Student Use of Social Media

REQUIRED TEXTBOOKS

Cloherty, J., Eichenwald, E., Hansen, A. & Stark, A. (2012). *Manual of Neonatal Care*, (7th ed.). Lippincott, Williams & Wilkins. ISBN-13: 978-1-60831-777-6. (suggested to purchase with workbook at CCPR: <http://ccprwebsite.org/cp_product.cfm?i=102>)

Gomella, T. L., Cunningham, M.D., & Eyal, F.G. (2013). *Neonatology management, procedures, on-call problems, diseases and drugs: 25th edition* (7th ed.). McGraw-Hill Professional Publishing. ISBN: 9780071768016.

RECOMMENDED TEXTBOOK

MacDonald, M. G., Ramasethu, J., & Rais-Bahrami, K. (2012). *Atlas of Procedures in Neonatology* (5th ed.). Philadelphia: Lippincott Williams & Wilkins. ISBN(13): 9781451144109.

WEEKLY CLASS SCHEDULE

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| DATE | TOPIC | READINGS |
| Jan 19th  8:00 AM – 12:00 PM | General principles  Informed consent for procedure on Neonates  Aseptic Preparation  Venipuncture and Arterial puncture  Central Venous Catheterization  UVC  PICC  Central Artery Catheterization  UAC  Peripheral arterial cannulation  Exchange transfusion | Required textbooks:  Cloherty et al (2012) – Chapter 66.  Gomella et al (2013) – Chapters 22-24,30, and 42-45.  Arthur, R. (2001). The neonatal chest x-ray. *Paediatric Respiratory Reviews,* 2: 311-323.  Chitty, H. Ziegler, N., Savoia, H., Doyle, L., & Fox, L. (2013). Neonatal exchange transfusions in the 21st century: A single hospital study. *Journal of Paediatrics and Child Health,* 49(10): 825-32.  Hopewell, B., Steiner, L., Ehrenkranz, R., Bizzarro, M., & Gallagher, P. (2011). Partial exchange transfusion for polycythemia hyperviscosity syndrome. *American Journal of Perinatology,* 28(7): 557-64.  Kieran, E., Laffan, E., & O’Donnell, C. (2015). Estimating umbilical catheter insertion depth in newborns using weight or body measurement: A randomized trial. *Archives of Disease in Childhood. Fetal & Neonatal Edition,* pii: fetalneonatal-2014-307668. doi: 10.1136/archdischild-2014-307668. [Epub ahead of print]  Marshall, M. (2014). Radiographic assessment of umbilical venous and arterial catheter tip location. *Neonatal Network,* 33(4): 208-216.  Oestreich, A. (2010). Umbilical vein catheterization—appropriate and inappropriate placement. *Pediatric Radiology,* 40(12): 1941-9.  Park, C., Paes, B., Nagel, K., Chan, A., & Murthy, P. (2014). Neonatal central venous catheter thrombosis: Diagnosis, management, and outcome. *Blood Coagulation and Fibrinolysis: An International Journal in Haemostasis and Thrombosis,* 25(2): 97-106.  Shahid, S., Dutta, S., Symington, A., & Shivananda, S. (2014). Standardizing umbilical catheter usage in preterm infants. *Pediatrics,* 133(6): e1742-52.  Sharpe, E., Pettit, J., & Ellsbury, D. (2013). A national survey of neonatal peripherally inserted central catheter (PICC) practices. *Advances in Neonatal Care,* 13(1): 55-74.  Optional reading: Atlas of Procedures, chapters 2, 5, 14, 15, 27, 29-31, and 44 |
| Jan 26th  8:00 AM – 12:00 PM | Endotracheal Intubation  Lumbar puncture  Suprapubic Bladder Aspiration  Thoracostomy tubes  Needle thoracentesis  Pericardiocentesis | Required textbooks:  Cloherty et al (2012) – Chapters 38 and 66.  Gomella et al (2013) – Chapters 25, 27, 29, 35, 38, and 40  Allen, K. (2012). Premedication for neonatal intubation: Which medications are recommended and why. *Advances in Neonatal Care,* 12(2): 107-11.  Cates, L. (2009). Pigtail catheters used in the treatment of pneumothoraces in the neonate. *Advances in Neonatal Care,* 9(1): 7-16.  Hatch, L., Grubb, P., Lea, A., Walsh, W., Markham, M., Whitney, G., Slaughter, J., Stark, A., & Ely. E. (2015). Endotracheal intubation in neonates: A prospective study of adverse safety events in 162 infants. *Journal of Pediatrics,* pii: S0022-3476(15)01151-8. doi: 10.1016/j.jpeds.2015.09.077. [Epub ahead of print].  Srinivasan, L., Harris, M., & Shah, S. (2012). Lumbar puncture in the neonate: Challenges in decision making and interpretation. *Seminars in perinatology,* 36: 445-453.  Optional readings: NRP  Atlas of procedures, chapters 17, 19, 36, 38-39 |
| February 3rd  8:00 – 5:00 PM |  | Onsite skills lab day |