

**GEORGE MASON UNIVERSITY**  
**College of Health and Human Science**  
**School of Nursing**

**NURS 349**  
**Pediatric Pathophysiology and Nursing Care**  
**Spring 2008**

**PROFESSOR:**

**Ms. Mary Lou Davis RN, MSN, CPNP**  
**Office: Robinson Hall A 368**  
**Office Phone: 703-993-3611**  
**E-mail: [mdavisq@gmu.edu](mailto:mdavisq@gmu.edu)**

**Mrs. Cara Cox RN, MSN**  
**Office: Robinson A 380**  
**Office Phone: 703-993-3595**  
**Email: [ccox5@gmu.edu](mailto:ccox5@gmu.edu)**

**\*The following Lecture Content Outline/Class Assignment Timetable will vary depending on each section and faculty schedules. The following table is correct in regards to the content material. Faculty will provide a specific outline of content dates, including dates for exams and quiz schedules and the in class critical thinking exercises.**

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**Course Number:** NURS 349

**Course Title:** Pediatric Pathophysiology and Nursing Care (2:2:0)

**Placement:** Junior Year

**Course Description:**

This course introduces students to the changing health needs of culturally diverse and vulnerable populations. The focus will be on nursing care, pathophysiological, psychological, socio-cultural and risk reduction implications of frequently experienced health problems in the pediatric population.

**Course Objectives:** At the completion of this course the student will be able to:

1. Describe the cause and effect of selected major health problems in the pediatric populations.
2. Recognize the signs and symptoms of selected health problems that pediatric/adolescent population may demonstrate.
3. Identify the nursing diagnoses, management/interventions, and desired outcomes that arise from selected health problems in the pediatric population.
4. Describe the delivery of nursing care to children and their families using family centered care principles and the developmental stages.
5. Determine the impact of the selected health problems on children, adolescents, their families and culturally diverse groups.
6. Determine health education and community resource needs of the pediatric client and their families experiencing selected health problems.
7. Define the rationale for pediatric nursing care and medical technologies as they apply to the study, diagnosis, and treatment of pediatric health problems.
8. Incorporate research and evidenced base practice strategies into the nursing care of children and their families.

**Teaching Strategies:**

Lecture-discussion, computer assisted learning, case study, and interactive learning CD.

**Required Text:**

Hockenberry, M. J. (2005). *Wong's essentials of pediatric nursing* (7<sup>th</sup> ed.). St. Louis, MO: Mosby.  
 ATI-Nursing Care of Children. RN Edition 7.0 Text and accompanying DVD

**Required Computer Aids:**

GMU. (2004). Webct41.  
[www.atitesting.com](http://www.atitesting.com)

## CHHS and the School of Nursing Expectations

The CHHS and the School of Nursing expects that all students abide by the following:

- Students are expected to exhibit professional behavior and dispositions. See <http://www.gmu.edu/depts/chhs/nsg/> student handbook for a listing of these dispositions.
- Students must follow the guidelines of the University Honor Code. See [http://www.gmu.edu/catalog/apolicies/#TOC\\_H12](http://www.gmu.edu/catalog/apolicies/#TOC_H12) for the full honor code.
- Students must agree to abide by the university policy for Responsible Use of Computing. See <http://mail.gmu.edu> and click on Responsible Use of Computing.
- Students with disabilities who seek accommodations in a course must be registered with the GMU Disability Resource Center (DRC) and inform the instructor, in writing, at the beginning of the semester. See [www.gmu.edu/student/drc](http://www.gmu.edu/student/drc) or call 703-993-2474 to access the DRC. All academic accommodations must be arranged through the DRC.

**COURSE EVALUATION METHODS**

Four Quizzes (10% each)	40%
Five Critical Thinking Exercises (1% each)	5%
Midterm Exam	20%
Comprehensive Final Exam	30%
ATI Proctored exam	0-5 pts.
	95-100

**ATI Testing:**

- ATI testing is a mandatory requirement for selected nursing courses.
- ATI practice tests (version 1 and 2) must be passed with a 90% or higher to be eligible to take the ATI proctored exam.
- Dates for ATI testing will be assigned by the faculty teaching the course.
- Completion of the ATI proctored exam is a requirement for passing the course.
- If a Level II or above is not achieved, remediation will be required. The student will be required to retake the proctored exam. Students may not retake a proctored exam if a Level II or III is achieved which demonstrates mastery of the content.
- Points will be awarded for the first exam:
  - Level III = 5 points
  - Level II = 4 points
  - Level I or below = 0 points
- For any score of Level I or below, no points will be awarded until completion of remediation and retake of the proctored exam. Points will be awarded as follows for the RETAKE exam:

**First Exam:**

- Level I = 0
- Below Level I = 0
- Level I = 0
- Below Level I = 0

**RETAKE Exam:**

- Level I, II, III = 3 points  
 Level I, II, III = 3 points  
 Below Level I = 0 points  
 Below Level I = 0 points

**GRADING SCALE:** The final grade percentage for conversion to the letter grade is not rounded.

A+	99.00% - 100
A	94.00% - 98.99%
A-	90.00% - 93.99%
B+	87.00% - 89.99%
B	83.00% - 86.99%
B-	80.00% - 82.99%
C+	76.00% - 79.99%
C	73.00% - 75.99%
C-	70.00% - 72.99%
D	60.00% - 69.99%
F	0% - 59.99%

Grade Points are NOT rounded up. A cumulative grade of 73% (C) and above is considered a passing grade for this class.

## GENERAL COURSE POLICY STATEMENTS:

1. Students are expected to attend every class and **to read in advance of each class the assigned chapters of the textbook.**
2. Lecture will **enhance** but not substitute for the assigned readings.
3. Class will begin promptly. Please respect your colleagues if you arrive late for class. If there is a quiz or a test when you arrive late, you will not be given additional time to complete it.
4. Supplemental handouts will be primarily over WebCT. Please see this syllabus for information regarding access and use of WebCT.
5. Students are required to have an active GMU email account.
6. Please turn all cell phones/pagers to silent or vibrate when you are in class.
7. Critical Thinking Exercises will be completed during the first 10 minutes of class. **You must be present in class to receive credit for the exercise on that particular day, no exception. If you arrive late, you will not be given additional time to complete the exercise.** Each exercise will have four questions. Questions will be reflective on the content material from past lecture/reading content and content for that specific class period.
8. Midterm and Final Examinations will not focus solely on class content. Exam questions reflect lecture, discussion, required readings, and handouts. They will reflect the student's ability to synthesize the assigned readings and class content and apply critical thinking skills.
9. Quiz questions reflect material from the required readings and lecture content. All quizzes will be 25 minutes in length.
10. You must be present in class to receive credit for the quiz on that particular day, no exception. There are no make up quizzes.
11. The midterm and final examinations are to be taken as scheduled. Only under extraordinary circumstances may an exam be missed (illness or family emergency). Students who are ill or who have serious reasons for not attending an exam are expected to notify the professor **prior** to the exam time. An alternative date will be arranged at that time by the professor and the student. **Written authentication of medical or other emergency is required prior to taking the make-up exam.**
12. If a student fails to appear for an exam as scheduled, it is the student's responsibility to contact the professor within 24 hours of the missed exam. Failure to do so will result in a deduction of **10 points** per day from the grade for that exam, for every day beyond the initial 24 hours. Professors have the right to administer a different exam

## ABOUT Web CT:

WebCT is a web course tool used by many instructors at Mason. All registered students have a WebCT account.. To access WebCT, go to <http://webct41.gmu.edu>. Login information can be found at that address also. For further information, contact the ITU Support Center on the web.

Links to Webct Information:

<http://www.irc.gmu.edu/coursetools/webct/>

<http://www.irc.gmu.edu/coursetools/webct/quickstart>.

Date	Content	Reading (Wong)	Review (ATI)
	<p>Introduction to Pediatric Pathophysiology  <b>Chapter 1 Perspectives of Pediatric Nursing</b>  <b>Chapter 17</b>  <b>Health Problems of the School Age Child</b>            Attention Deficit Hyperactivity  <b>Chapter 19 Impact of Cognitive or Sensory Impairment of the Child and Family</b>            Down Syndrome            Autism</p> <p>-----</p> <p><b>Chapter 10 Health Promotions of the Infant</b>            Immunizations  <b>Ch. 24, Hepatic Disorders</b>  <b>Ch. 28, Bacterial/Aseptic Meningitis</b>  <b>Human Papillomavirus (HPV)</b></p> <p><b>Chapter 14 Health Problems of Toddlers and Preschoolers</b>            Communicable Disease</p>	<p>Pgs 1-21</p> <p>Pgs 536-539</p> <p>Pgs 596-601 Pgs 618-619</p> <p>Pgs 335-346 Pgs 866-870 Pgs 1041-1044 Posted handouts</p> <p>Pgs 434-450</p>	<p>Chapter 1 Chapter 2</p> <p>Chapter 27</p> <p>Chapter 53</p> <p>Chapter 28</p> <p>Chapter 54</p>
	<p><b>Chapter 23 The Child with Respiratory Dysfunction</b>            Respiratory Infection            Upper Respiratory Infections            Croup Syndromes            Infections of the Lower Airways Pertussis (Whooping cough)            Asthma            Cystic Fibrosis</p> <p>-----</p> <p><b>Chapter 24 The Child With Gastrointestinal Dysfunction</b>            Dehydration, diarrhea, constipation, Vomiting            Hirschsprung Disease            Gastroesophageal Reflux            Acute Appendicitis            Structural Defects: Cleft Lip &amp; Palate            Hypertrophic Pyloric Stenosis Intussusception            Celiac Disease            Hernia</p>	<p>Pgs 787-807</p> <p>Pgs 813-824 Pgs 824-829</p> <p>Pgs 839-861</p> <p>Pgs 871-875 Pgs. 880-883 Pgs. 885-886 Pg. 879</p>	<p>Chapter 29 Chapter 18 Chapter 15</p> <p>Chapter 16 Chapter 19</p> <p>Chapter 35</p> <p>Chapter 36</p> <p>Chapter 37</p>

Date	Content	Reading (Wong)	Review (ATI)
	<p><b>Chapter 25</b>  <b>The Child With Cardiovascular Dysfunction</b>            Congenital Heart Disease            Acquired Cardiovascular Disorders            Bacterial Endocarditis/Rheumatic Fever            Kawasaki Disease</p> <p>-----</p> <p><b>Chapter 26</b>  <b>The Child With Hematologic or Immunologic Dysfunction</b>            Anemia, Iron deficiency Anemia, Sickle Cell Anemia/ Thalassemia            Defects in Hemostasis-Hemophilia</p>	<p>Pgs 890-924</p> <p>Pgs. 931-932</p> <p>Pgs 939-954</p>	<p>Chapter 20</p> <p>Chapter 26</p> <p>Chapter 23            Chapter 24            Chapter 25</p>
	<p><b>Midterm Exam</b></p> <p>-----</p> <p><b>Chapter 19</b> Retinoblastoma  <b>Chapter 26</b> Neoplastic Disorders            Leukemia            Lymphoma</p> <p>Hematologic Disorders  <b>Chapter 27</b> Wilms Tumor  <b>Chapter 28</b> Nervous System Tumors  <b>Chapter 31</b> Bone and Soft Tissue Tumors</p>	<p>Pgs 616-618</p> <p>Pgs 957-965            Pgs 970-972            Pgs972-975            Pgs 978-981            Pgs 1000-1001            Pgs 1035-1041            Pgs 1178-1181</p>	<p>Chapter 22            Chapter 31            Chapter 30</p>
	<p><b>Chapter 27 The Child with Genitourinary Dysfunction</b>            GU Dysfunction/Disorders/Defects            Nephrotic Syndrome            Acute Glomerulonephritis            Renal Failure  <b>Chapter 29 The Child with Endocrine Dysfunction</b>            Disorders of Pancreatic Hormone Secretion-            Diabetes</p> <p>-----</p> <p><b>Chapter 28 The Child with Cerebral Dysfunction</b>            Assessment of cerebral dysfunction            Nursing care of the unconscious child            Head injury            Reye Syndrome            Seizure disorders            Hydrocephalus</p>	<p>Pgs 985-1006</p> <p>Pgs 1079-1093</p> <p>Pgs 1012-1035</p> <p>Pgs 1045            Pgs. 1047-1055            Pgs. 1056-1060</p>	<p>Chapter 40            Chapter 42            Chapter 38            Chapter 48            Chapter 43            Chapter 47            Chapter 42</p>

Date	Content	Readings (Wong)	Review (ATI)
	<p><b>Chapter 30 The Child with Integumentary Dysfunction</b>            Infections of the Skin            Skin Disorders r/t Chemical/Physical Contact            Skin Disorders r/t Insect/Animal Contacts            Skin Disorders Associated with Specific Age Groups            Burns</p> <p>-----</p> <p><b>Chapter 31 The Child with Musculoskeletal or Articular Dysfunction</b>            Immobilized child            Traumatic Injury            Congenital Defects:            (Developmental Dysplasia of the Hip &amp; Congenital clubfoot)            Acquired Defects:            (Legg-Calve Perthes Disease, Slipped Femoral Capital Epiphysis, Scoliosis)</p>	<p>Pgs 1096-1116</p> <p>Pgs 1121-1128</p> <p>Pgs. 1129-1145</p> <p>Pgs 1148-1176</p>	<p>Chapter 33</p> <p>Chapter 34</p> <p>Chapter32</p> <p>Chapter51</p> <p>Chapter 50</p>
	<p><b>Chapter 32</b>  <b>The Child with Neuromuscular Dysfunction</b>            Cerebral Palsy            Spina Bifida (Myelomeningocele)            Muscular Dystrophies (DMD)</p> <hr/> <p><b>FINAL EXAM</b></p> <p><b>ATI proctored exam dates per instructor</b></p>	<p>Pgs 1187-1207</p>	<p>Chapter 45            Chapter 46            Chapter 52</p>



