

Michigan State University
College of Nursing

NUR 315
Core Competency in Nursing

Course Syllabus
Fall/Spring 2003-2004

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Course Overview

Course Description

NUR 315 is a junior level nursing seminar that assesses core level nursing competencies at the intermediate level of nursing practice. The course integrates concepts from the natural, social and nursing sciences. Students meet for a total of 15 hours during the Fall 2003 and Spring 2004 semesters. This is a year long seminar with the grade for the credit submitted after successful completion of both semesters. Attendance is **mandatory**.

Course Objectives

After completion of the course, students will be able to:

1. Integrate natural, social and nursing sciences related to clients and families with complex health problems.
2. Use intermediate level clinical decision making skills and the research process to evaluate case studies and clinical experiences.
3. Critically evaluate and demonstrate the values and behaviors necessary in the professional nursing role.
4. Use critical thinking and research process to examine legal, ethical and cultural problems in nursing care and societal health.
5. Complete standardized self assessment materials (Comprehensive Achievement Profiles) related to junior level nursing content.

Overview of Comprehensive Achievement Profiles (CAP)

NUR 315 is designed to enhance students' understanding and application practice with critical thinking skills in nursing. The course will use increasingly complex situations and models of critical thinking. Students will practice these thinking and problem solving skills through a variety of methods, including case studies, practice test questions and discussion.

In addition to practice provided in the Core Competency course, students will use self-evaluation tools and remediation programs provided by Education Resources, Inc. (ERI). These resources include nursing subject area examinations, referred to as Comprehensive Achievement Profiles (CAP), subject area remediation materials in the form of CD ROMs (housed in the media lab) and remediation activities that can be found on the ERI website.

Selected CAP tests are required for all students, and will be given in the context of the course. These examinations are selected by faculty to give the students a method of self-assessment of their performance in a given subject area. Because these exams are self-assessment, they should be used by students to help identify areas that need additional attention. Each CAP gives students a detailed breakdown about their performance on a variety of areas, including the areas used in the NCLEX test plan. One of the ways that professional nursing assesses critical thinking and clinical decision making in nursing care is through the NCLEX, also referred to as the State Board Examination. The assessment profile in NUR 315 gives the student a score on application of the nursing process, areas of client care, and critical thinking in the following areas: Pharmacology, Pathophysiology, Maternal Health, Pediatrics and Care of the Adult Client.

The MSU College of Nursing has adopted a standard for performance on the CAPs. This standard provides the students and faculty with objective criteria against which to give advice for remediation. Students are required to engage in remediation if their composite score is less than the National average.

Students will use the CAPs for focused remediation activities, and can use a variety of methods to review materials. The ERI website will provide students with specific page numbers in the textbook that refer to the area of need. In addition, students may access relevant materials housed in the Media Lab. Students may also do independent study at the library, review texts and consult with faculty. After any given CAP,

students who require remediation will have up to 2 weeks to review the necessary materials prior to a re-test. Students requiring remediation must re-test in the appropriate subject using another set of tests available from the ERI website. These tests are called Clinical Theory & Enhancer exams (except for Pathophysiology). The Enhancer exams are available on the ERI website for students to practice on as often as desired. The website will discuss each question. However, students who require remediation must take their final enhancer exam in the media lab, and print results for the NUR 315 faculty within 2 weeks in order to pass the course.

Outline of Major Topics

1. Systems
2. Group Dynamics
3. Infection Control
4. Pharmacokinetics
5. Biological Integrity
6. Therapeutic Relationships
7. Nursing Professional Role
8. Clinical Decision Making
9. Research Process

Instructional Methods

NUR 315 is a seminar course that includes discussion, case studies, evaluation and outcome planning. The course will use readings assigned in required junior level nursing courses and clinical case studies.

Evaluation

Student performance is based on class attendance, class participation and the completion of competency self assessment materials. If students do not successfully master the self assessment materials, remediation will be required and additional self assessment will be completed. This is a pass/no pass course which extends two semesters. Students register for the course in the fall and complete the course at the end of the spring semester. Student grades for the fall semester will be postponed till the end of the spring semester.

Attendance Policy

Attendance is mandatory. If a student is ill, a health provider's statement may be requested to validate an absence, and the student must attend an alternate NUR 315 seminar if available or submit a written assignment.

Taping Policy

Taping is not allowed in nursing seminars.

Academic Dishonesty

Academic dishonesty in any form will not be tolerated. If cheating is observed and documented by a faculty member, the student will be reported to the College of Nursing Student Affairs Committee and a no pass grade will be issued for the course. For further clarification, refer to the Student Handbook.

Student-Faculty Relationship

Scheduled student-faculty conferences are not held in NUR 315. However, faculty members are available to answer questions and provide appropriate guidance. Scheduled appointments are suggested should students wish to see the course chairperson.

Communication Devices

All communication devices, including cell phones and pagers, must be turned off while in class.

College of Nursing and MSU policy

Students should refer the College of Nursing or MSU Student Handbook for any areas not specifically covered in the syllabus.

Michigan State University
 College of Nursing
 NUR315 Core Competency in Nursing
 Fall 2003-Spring 2004
 Calendar for Section I

Week / Content	Group A	Group B
I. Fall Semester		
1 Orientation (one hour) Explanation of goals, objectives, syllabus, schedule, self assessments, available options, remediation	8/28	8/28
2 Pharmacology in Clinical Nursing examination (CAPs)	9/4	9/4
3 Overview of critical thinking concepts, application to nursing, basic exercises	9/11	9/11
4 Case study analysis, discussion and small group exercises	9/25	10/2
5 Case study analysis and discussion	10/9	10/16
6 Pathophysiology examination (CAPs)	10/23	10/23
II. Spring semester		
1 Orientation Review of basic concepts, test taking strategies		1/15
2 Maternity & Child Nursing/Nursing Care of Adults – Part 1 and 2 examination (CAPs)		1/22

Groups (A & B) will be determined first week of class.
 Dates in bold, groups will be attending class on the same day.

Michigan State University
 College of Nursing
 NUR315 Core Competency in Nursing
 Fall 2003-Spring 2004
 Calendar for Section II

Week / Content	Group A	Group B
III. Fall Semester		
1 Orientation – (one hour) Explanation of goals, objectives, syllabus, schedule, self assessments, available options, remediation	8/28	8/28
2 Pharmacology in Clinical Nursing (CAPs)	9/4	9/4
3 Overview of critical thinking concepts, application to nursing, basic exercises	9/11	9/11
4 Case study analysis, discussion and small group exercises	9/25	10/2
5 Case study analysis and discussion	10/9	10/16
6 Patho-physiology examination (CAPs)	10/23	10/23
IV. Spring semester		
1 Orientation Review of basic concepts, test taking strategies		1/14
2 Maternity & Children /Nursing Care of Adults-Part 1 and 2 examination (CAPs)		1/21

Groups (A & B) will be determined first week of class.
 Dates in bold, groups will be attending class on the same day.

Reading Guide for Pharmacology
Pharmacology for Nursing Care
by Lehne, 4th Edition, Saunders, 2001

V. Principles of Administration

- A. Medication Administration pgs. 1-92, 1198-1203
- B. Legal pgs. 5-7
- C. Routes pgs. 33-36, 1198-1203

VI. Dosage Calculations

- A. Math Percentages, Decimals, Fractions*
- B. Systems of Measurement and Abbreviations pgs. 1190, 1196
- C. Forms (Liquids, Powders, etc.) pgs. 36, 1198-1203

VII. Drugs and Systems

- A. Antibiotics and Sulfonamides pgs. 905-917, 919-929(Penicillins), 931-939(Cephalosporins & Other), 941-953(Tetracyclines, Macrolides & Other), 955-961, (Aminoglycosides), 963-970(Sulfonamides), 979-993 (Antimycobacterial Agents), 995-999(Other Antibacterial Drugs), 1001-1012(Antifungal Agents), 1013-1061(Antiviral Agents), 1063-1070(Drugs for STD's), 1071-1075(Antiseptics/Disinfectants), 1077-1082(Anthelmintics), 1083-1095(Antiprotozoal Drugs), 1097-1100(parasiticides)
- B. Cardiac Medications pgs. 413-425 (Diuretics), 433-450, 451-460 (Calcium Channel Blockers), 461-467 (Vasodilators), 469-489 (Drugs for Hypertension), 491-504 (Angina), 505-520 (Heart Failure), 521-540(Antidysrhythmic drugs), 541-558 (Coronary Artery Disease), 559-571 (Anticoagulants), 571-574 (Antiplatelets), 574-581 (Thrombolytics), 583-588 (Myocardial Infarction), 589-610 (Anemia & Other)
- C. Allergies and Respiratory (Oxygen) pgs. 823-838 (Asthma), 839-846(Allergies, Cough & Cold), 979-989 (Tuberculosis), 757-763 (Antihistamines)
- D. Nervous System Medications pgs. 93-175, 177-194 (parkinson's Disease), 195-213 (Epilepsy), 215-229 (Muscle Spasm & Headache), 231-248 (Anesthetics), 249-291 (Analgesics), 350-357 (Hypnotics), 1141-1149 (Eye)
- E. Psychiatric Medications pgs. 293-310 (Schizophrenia), 311-329 (Antidepressants), 331-337 (Bipolar Disorders), 339-357 (Anxiety & Insomnia), 359-367 (Attention Deficit/Hyperactivity), 369-376 (Other), 377-411 (Drug Abuse)
- F. Gastrointestinal Medications and Vitamins pgs. 847-859 (Ulcer Disease), 861-867 (Laxatives), 879 (Other), 881-890 (Vitamins), 891-894 (Enteral & Parenteral Nutrition), 895-903 (Obesity), 1171-1181 (Herbal Supplements), 1183-1188 (poisoning)
- G. Endocrine and Urinary Medications pgs. 413-425 (Diuretics), 427-431 (Fluid & Electrolyte Balance), 611-633 (Diabetes), 635-647 (Thyroid), 649-657 (pituitary), 659-666 (Adrenal Cortex), 667-704 (Hormones & Birth Control), 705-711 (Infertility), 715-722 (Uterine Stimulants & Relaxants), 971-977 (Drugs for Urinary Tract Infections)
- H. Musculoskeletal Medications pgs. 215-219 (Muscle Spasm), 793-802 (Rheumatoid Arthritis & Gout), 803-821 (Drugs for Calcium & Bone Mineralization), 1151-1161 (Skin)

- I. Antineoplastics/Immunologic pgs. 723-755 (Immune System & Immunosuppressants), 757-763 (Antihistamines), 765-780 (NSAIDs), 781-791 (Glucocorticoids), 1101-1140 (Cancer Drugs)

*Refer to a Mathematics or Fundamentals textbook for this information.

Reading Guide for Pathophysiology
Pathophysiology Concepts of Altered Health States
by Porth, Sixth Edition, Lippincott, 2002

- I. Cell Adaption & Differentiation pgs. 61-178, 181-194
- II. Inflammation/Immunity pgs. 307-396
- III. Altered Fluid & Electrolyte! Acid Base Balance pgs. 693-752
- IV. Hematologic pgs. 249-306
- V. Integument & Sensory Organs pgs. 195-208, 1235-1308, 1391-1444
- VI. Endocrine pgs. 889-952
- VII. Neurologic pgs. 1041-1234
- VIII. Cardiovascular pgs. 397-574
- IX. Respiratory pgs. 575-670
- X. Renal pgs. 671-692, 753-812
- XI. Gastrointestinal/Exocrine Organs pgs. 209-230,813-888
- XII. Musculoskeletal pgs. 231-248, 1309-1390
- XIII. Genitourinary/Gynecologic pgs. 953-1040

Reading Guide for Maternal Child Nursing
Maternity and Women's Health Care
by Lowdermilk, Perry & Bobak, 7th Edition, Mosby, 2000

I. Foundations

- A. Contemporary Issues in Maternity and Women's Health Care pgs. 1-12
- B. Sociocultural Considerations pgs. 15-29,31-49
- C. Ethical and Legal Considerations pgs. 9-11

II. Human Reproduction *

- A. Anatomy and Physiology of the Reproductive System pgs. 88-100
- B. Conception and Development of the Embryo and Fetus pgs.303-321
- C. Special Reproductive Concerns pgs. 70, 73-74,206-224,321-331

III. Women's Health

- A. Health Assessment, Screening, and Prevention pgs.69-114
- B. Women's Sexuality pgs. 71-72, 128-142, 179-200
- C. Women's Health Problems pgs. 115-128,200-204,247-265,269-302
- D. Violence Against Women pgs. 79, 225-245
- E. Infectious Diseases pgs. 144-178

IV. Normal Pregnancy

- A. Anatomy and Physiology of Pregnancy pgs. 333-352
- B. Maternal and Fetal Nutrition pgs. 353-379
- C. Family Dynamics of Pregnancy pgs. 380-389
- D. Normal Pregnancy pgs. 389-427,429-442
- E. Assessment of Fetal Well Being pgs. 400-403, 790-813

V. Normal Childbirth

- A. Essential Factors and Process of Labor pgs. 444-462
- B. Pain Management pgs. 463-487
- C. Fetal Monitoring pgs. 488-508, 790-813
- D. First Stage of Labor pgs.510-554
- E. Second and Third Stages of Labor pgs. 554-578

VI. Normal Newborn

- A. Assessment of the Newborn pgs. 671-714,716-720,729-736
- B. Nursing Care of the Newborn pgs.720-755
- C. Newborn Nutrition and Feeding pgs. 757-788
- D. Maternal Newborn Home Care pgs. 615-621, 654-668

VII. Normal Postpartum

- A. Postpartal Adaptation/Nursing Assessment pgs. 581-602
- B. Nursing Care During the Postpartum Period pgs. 600-611
- C. Psychosocial Aspects of the Postpartum Period pgs. 611-621
- D. Family Dynamics after Childbirth pg. 612-613, 623-668

VIII. Complications of Childbearing

- A. Pregnancy at Risk: Pre-gestational Problems pgs. 861-910, 940-962
- B. Pregnancy at Risk: Gestational Onset pgs. 815-859, 861~910, 912-938,964-978
- C. Childbirth at Risk pgs. 981-1018
- D. Postpartal Family at Risk pgs. 1021-1036

IX. Newborn Complications

- A. Nursing Care of the Compromised Newbom pgs.1097-1131
- B. Gestational Age and Birth Weight pgs. 726-729
- C. Physiologic Alterations in the Neonate pgs. 730-731, 1070-1095
- D. D. Acquired Problems of the Neonate pgs. 1037-1068
- E. Loss and Grief pgs. 728, 1134-1154

*See Genitourinary System in Nursing Care of Adults.

Reading Guide for Nursing of Children
Wong's Essentials of Pediatric Nursing
by Wong, Wilson & Hockenberry-Eaton, Sixth Edition, Mosby, 2000

I. Child Development and Family

- A. Heredity pgs. 109,315-318, 1272-1273
- B. Growth and Development pgs. 93-117
- C. Theories of Development pgs. 101-104
- D. Abuse in Children pgs. 482-493

II. Health Promotion of the Newborn and Infant

- A. Initial Assessment pgs. 197-216,221-228
- B. Physical Development and Health Maintenance pgs. 216-221,331-380
- C. Neonatal Nutrition pgs. 228-232
- D. Bonding! Attachment pgs. 215,232-235
- E. High-Risk Neonate pgs. 245-306, 308-315
- F. Disorders (pgs. 384-409)
 - i. Congenital pgs. 315-325,628-633,893-895,910-921,925-926,936-966, 1042, 1221-1227
 - ii. Infections pgs. 306-308,315

III. Health Promotion of the Toddler and Preschool Child

- A. Physical, Psychosocial and Cognitive Development pgs. 412-421,438-445
- B. Guiding the Child pgs. 421-427, 435-436, 449-452
- C. Nutrition pgs. 424
- D. Toileting pgs.419-421
- E. Play pgs. 418-419,442-443
- F. Accident Prevention pgs. 427-435

IV. Health Promotion of the School-Age Child

- A. Physical and Psychosocial Development pgs. 497-507
- B. Physical Care pgs.510-518
- C. Guidance pgs.507-510

V. Health Promotion of the Adolescent

- A. Physical and Psychosocial Development pgs.519-531
- B. Special Needs pgs. 527-530
- C. Health Education Guidance pgs. 532-540

VI. Neurologic and Musculoskeletal Disorders

pgs. 639-648 (Eye and Ear), 1062-1112, 1205-1268

VII. Cardiovascular and Hematologic Disorders

pgs. 936-981,984-994, 1002-1016, 1017-1029 (Lymphatic)

VIII. Respiratory Disorders

pgs. 824-830,831-835,835-851,863-868

IX. Gastrointestinal and Metabolic Disorders

pgs. 883-910,921-924,926-930

X. Renal and Endocrine Disorders

pgs. 549-556 (Reproductive), 1033-1043, 1048-1050,1043-1048, 1050-1059,1115-1147

XI. Skin Disorders and Pediatric Communicable Diseases

A. Skin pgs. 1167-1203

B. Pediatric Communicable Diseases pgs. 359-370,851-863, 1019-1024, 1162-1165

XII. Oncology and Other Miscellaneous Topics

A. Health Care Delivery pgs. 655-733, 738-780,801-818,868-876

B. Hospital Admission and Assessment pgs. 119-147, 150-195

C. Administering Medications to Children pgs. 697-709, 780-801

D. Fluid Balance in Children pgs. 797-801, 880-883

E. Nutrition, Digestion and Elimination in Children pgs. 142-147,775-778,811-818

F. Chronic Illness, Disability and Death pgs.578-618

G. Miscellaneous Pediatric Topics pgs. 404-409,472-482,561-565,569-572,622-650, 666-668, 1266-1267

Reading Guide for Nursing Care of Adults I and II
Medical Surgical Nursing Critical Thinking for Collaborative Care
by Ignatavicius and Workman, Fourth Edition, Saunders, 2002

I. Health and Illness

- A. Health Maintenance and Health Needs pgs. 1-35
- B. Health Assessment pgs. 471-488, 627-653, 827-835, 882~896, 1015-1023, 1050-1060, 1084-1093, 1165-1177, 1357-1363, 1393-1398, 1497-1513, 1598-1613, 1713-1729
- C. Biophysical Psychosocial Concepts Related to Health and Illness pgs. 36-60

II. Concepts in Client Management

- A. Concepts and Challenges pgs. 95-105 (Substance Abuse)
- B. Principles and Practices of Rehabilitation pgs. 119-137
- C. The Person Experiencing Pain pgs. 61-94
- D. Fluids and Electrolytes pgs. 139-235
- E. Oncology pgs. 106-118 (Death & Dying), 407-443
- F. Emergency Nursing pgs. 598-610

III. Perioperative Nursing

- A. Preoperative pgs. 237-259
- B. Intraoperative pgs. 260-284
- C. Postoperative pgs. 285-305

IV. Respiratory System

- A. Management of Clients with Conditions of the Upper Airway pgs. 508-528, 571-576
- B. Assessment and Respiratory Functions pgs. 467-488
- C. Respiratory Care Modalities pgs. 489-507
- D. Management of Clients with Conditions of the Chest and Lower Airway pgs. 529-590, 591-617

V. Hematologic and Circulatory Systems

- A. Cardiovascular, Circulatory and Hematologic Functions pgs. 619-626, 819-826
- B. Assessment of Cardiovascular Functions pgs. 627-653
- C. Management of Client with Cardiac Disorders pgs. 654-731, 789-817
- D. Management of Cardiac Surgery *
- E. Assessment and Management of Clients with Vascular Disorders pgs. 728-770, 771-788
- F. Assessment and Management of Clients with Hematologic Disorders pgs. 827-869

VI. Gastrointestinal System

- A. Assessment and Management of Clients with Ingestive Problems and Upper GI Disorders pgs. 1159-1214

- B. Gastrointestinal Intubation and Special Nutritional Management pgs. * 1356-1383
- C. Management of Clients with Gastric and Duodenal Disorders pgs. 1215-1239
- D. Management of Clients with Intestinal and Rectal Disorders pgs. 1240-1297

VII. Metabolic and Endocrine Systems

- A. Assessment and Management of Clients with Hepatic and Biliary Disorders pgs. 1298-1355
- B. Assessment and Management of Clients with Diabetes Mellitus pgs. 1440-1493
- C. Assessment and Management of Clients with Endocrine Disorders pgs. 1385-1439

VIII. Immunologic Functions and Infectious Diseases

- A. Immune System Immunopathology and Immunodeficiency pgs. 307-327, 364-391
- B. Assessment and Management of Clients with Allergic Disorders pgs. 392-406
- C. Management of Clients with Rheumatic Disorders pgs. 328-363
- D. Management of Clients with Infectious Diseases pgs. 311,445-465,783-788,904-908, 1805-1825