MACOMB COMMUNITY COLLEGE
DIVISION OF ARTS AND SCIENCES

COURSE SYLLABUS

I. **DEPARTMENT/DISCIPLINE:** Health and Human Services/Respiratory Therapy

II. **COURSE TITLE:** CLINICAL INTERNSHIP V

III. **CATALOG DESCRIPTION:** This course provides additional clinical experience for the respiratory therapy student. The student must complete 160 hours of clinical training in an affiliated hospital. Objectives focus on pulmonary function testing, critical care pharmacology, arterial blood gases and mechanical ventilation. Winter semester only. (20 contact hours per week for the second 8 weeks). Center Campus

IV. **PREREQUISITES:** RSPT 2360
COREQUISITES: RSPT 2420 and RSPT 2430

V. **COURSE NUMBER:** RSPT 2370

VI. **SEMESTER CREDIT HOURS:** 2 CREDIT HOURS
CONTACT HOURS: 20 HOURS/WEEK (16 HOURS FOR PEDIATRIC SPECIALTY ROTATION)

VII. **EFFECTIVE SEMESTER:** Winter 2006

VIII. **STUDENT ACADEMIC OUTCOMES: Upon completion of the course, the student will**

A. FOR CRITICAL CARE III
1. Demonstrate further development of professional behaviors and attitudes that contribute to satisfactory clinical practice.
a. The student will consistently arrive at the clinical site at the assigned time and prepared for the day's activities.
i. The student will have the following in their possession at all times:
- Results of personal physical examination.
- Verification of Hepatitis vaccine or waiver.
- Titers for communicable diseases or verification of recent vaccination.
- Result of TB skin test or chest x-ray result
- BLS Healthcare Provider card.
- Drug cards for medications commonly used in clinical practice.

b. The student will consistently demonstrate appropriate work appearance as outlined in the student handbook.

2. Demonstrate growth in effective and accurate communication skills, demonstrated thorough oral and written documentation, to patients and other members of the Health Care Team.
    a. Given a clinical situation, the student will consistently demonstrate proper documentation of the intervention and the patient's response.
    b. Given a patient interaction, the student will demonstrate appropriate communication interpersonal skills.
    c. Given a clinical situation, the student will indicate proper techniques to maintain privacy in the healthcare setting.
3. Continued improvement of adequate patient assessment skills through inspection, palpation, percussion and auscultation and correlate the results to the patient's pathophysiology.
    a. Given a clinical situation, the student will consistently identify the proper assessment techniques required.
    b. Given a clinical situation, the student will consistently state the anticipated outcomes of the assessment intervention.
    c. Given a clinical situation, the student will consistently demonstrate proper technique of assessment intervention.
4. Demonstrate continued competency in correlating assessment data and patients pathophysiology to determine a safe and appropriate treatment plan.
    a. Given a clinical situation, the student will consistently identify pathophysiological changes that are present.
    b. Given a clinical situation, the student will consistently identify clinical signs and symptoms that are emergent in nature and recommend appropriate steps to resolve.
    c. Given a clinical situation and appropriate patient information, the student will consistently identify the correct protocol or treatment plan to improve the patient's cardiopulmonary status.
5. Demonstrate further development of psychomotor skills used in performing respiratory therapy procedures safely and according to the acceptable treatment protocol.
    a. The student will demonstrate the proper procedure of suctioning with a 24-hour suction catheter.
    b. The student will demonstrate the ability to set-up a mechanical ventilator for patient use.
    c. The student will perform a routine ventilator check, according to department policy and procedure.
    d. The student will perform an assessment of the patient's readiness to be liberated from mechanical ventilation.
    e. Given an ABG, the student will be able to interpret the ABG and implement ventilatory changes to correct the acid/base and oxygenation abnormalities.
    f. The student will demonstrate the correct procedure for determining intra-cuff pressures.
    g. The student will be able to identify and troubleshoot any abnormal ventilator waveforms.

6. Demonstrate competency in performing tracheostomy care.
    a. The student will demonstrate proper technique for tracheostomy care.
7. Given an ECG tracing, the student will state the dysrhythmia present and list treatment options.
8. Given hemodynamic data, the student will be able to calculate desired hemodynamic indices and differentiate the shock state present.

B. FOR PEDIATRIC SPECIALTY ROTATION:
1. The student will develop professional behaviors and attitudes that contribute to satisfactory clinical practice.
    a. The student will consistently arrive at the clinical site at the assigned time and prepared for the day's activities.
        i. The student will have the following in their possession at all times:
            - Results of personal physical examination.
            - Verification of Hepatitis vaccine or waiver.
            - Titers for communicable diseases or verification of recent vaccination.
            - Result of TB skin test or chest x-ray result
            - BLS Healthcare Provider card.
            - Drug cards for medications commonly used in clinical practice.
        ii. The student will consistently demonstrate appropriate work appearance as outlined in the student handbook.
2. Effectively and accurately communicate, orally and through written documentation, to patients and other members of the Health Care Team.
    a. Given a clinical situation, the student will consistently demonstrate proper documentation of the intervention and the patient's response.
    b. Given a patient interaction, the student will demonstrate appropriate communication interpersonal skills.
    c. Given a clinical situation, the student will indicate proper techniques to maintain privacy in the healthcare setting.
3. Correlate assessment data and patients pathophysiology to determine a safe and appropriate treatment plan.
    a. Given a clinical situation, the student will consistently identify pathophysiological changes that are present.
    b. Given a clinical situation, the student will consistently identify clinical signs and symptoms that are emergent in nature and recommend appropriate steps to resolve.
    c. Given a clinical situation and appropriate patient information, the student will consistently identify the correct protocol or treatment plan to improve the patient's cardiopulmonary status.

4. The student will develop psychomotor skills in performing capillary and arterial blood sampling, and will be able to interpret results and recommend an appropriate treatment plan.
    a. The student will identify and list normal capillary/arterial blood-gas values.
    b. The student will observe the proper procedure for performing a capillary blood gas.
    c. Given a capillary or arterial blood gas, the student will be able to:
        i. Interpret the CBG/ABG
        ii. Make recommendations to treat the acid base and/or oxygenation abnormality.
5. The student will be able to initiate, monitor and recommend an appropriate treatment plan for patients receiving ventilatory life support and be able to evaluate patient's response.
    a. The student will be able to set-up a mechanical ventilator for patient use.
    b. The student will perform a routine ventilator check, according to department policy and procedure.
    c. The student will be able to calculate appropriate values used to assess the pediatric or neonatal patient during mechanical ventilation.
    d. The student will complete patient assessment forms as designated by the clinical instructor.
6. The student will demonstrate safe administration of all respiratory therapy procedures.
    a. The student will set-up and maintain an oxygen hood.
    b. The student will observe endotracheal suctioning utilizing sterile technique.
    c. The student will demonstrate the proper procedure of bag/mask or bag/tube ventilation.
    d. The student will demonstrate the proper procedure for administering aerosolized medications.
7. The student will correlate, assess and evaluate the patient's cardiovascular status using invasive and/or non-invasive monitoring devices.
8. The student will set-up and maintain a pulse oximeter.

IX. METHOD OF EVALUATION

A. Clinical Evaluation Forms
B. Daily Work Logs
C. Physician Contact Forms
D. Clinical Competency Check-offs (Performance Evaluations)
E. Hospital Evaluations done by the students at the end of the hospital rotation.

X. **COURSE CONTENT OUTLINE**

A. Pediatric/Neonatal
   1. Ventilator Set -up
   2. Ventilator Circuit Change
   3. Routine Ventilator Check
   4. Neonatal/Pediatric Ventilator
   5. Manual Ventilation
   6. Capillary Blood Gas

B. Critical Care II
   1. Arterial Blood Gas Sampling
   2. Arterial Blood Gas Analysis
   3. Ventilatory Assessment
   4. 24-hour Suction Catheter
   5. Ventilator Set-Up
   6. Ventilator Circuit Change
   7. Routine Ventilator Check
   8. Non-Invasive Ventilation
   9. Bedside Pulmonary Function

C. Critical Care III
   1. Arterial Blood Gas Sampling
   2. Arterial Blood Gas Analysis
   3. Ventilatory Assessment
   4. 24-hour Suction Catheter
   5. Ventilator Set-Up
   6. Ventilator Circuit Change
   7. Routine Ventilator Check
   8. Non-Invasive Ventilation
   9. Tracheostomy Care
   10. Arrhythmia Recognition