CCEMTP Reading List

Primary readings are recommended to prepare participants for the course and to enhance the learning experience. Although, UMBC has selected reading assignments from the indicated texts, participants may use any comparable texts to prepare for this program. Supplemental readings are recommended for reference use and for students seeking additional materials. All supplemental readings are indicated by the word “enrichment” in the reading list. These pre-course readings will help prepare the participants for the curriculum and will facilitate discussion during class.

Textbooks

Primary: You may utilize either the Critical Care Transport Text OR Introduction to Critical Care Nursing (5th Edition) OR Critical Care Nursing: A Holistic Approach (9th Edition) OR Air and Surface Patient Transport: Principles and Practice


OR


OR


OR


AND

UMBC CCEMTP Student Resource Guide (provided by UMBC)

Supplementary: readings which you may find helpful but are NOT mandatory!


Concepts & Components of a Critical Care Team
Critical Care Transport.
   Ch. 1: Introduction to Critical Care Transport

Medicolegal Aspects of Critical Care Transport
Critical Care Transport.
   Ch. 2: Medical-Legal Issues
Introduction to Critical Care Nursing
   Ethical and Legal Issues in Critical Care
Critical Care Nursing: A Holistic Approach
   Legal Issues in Critical Care.

Laboratory Data Interpretation
Critical Care Transport.
   Ch. 8: Laboratory Analysis and Diagnostic Studies
Introduction to Critical Care Nursing
   Endocrine Alterations
Critical Care Nursing: A Holistic Approach
   Patient Assessment: Cardiovascular System
      Cardiac Laboratory Studies.
      Effects of Serum Electrolyte Abnormalities on the ECG.
   Patient Assessment: Respiratory System
      Arterial Blood Gases
      Respiratory Diagnostic Tests.
   Patient Assessment: Renal System - Diagnostic Studies.

Shock
Critical Care Transport.
   Ch 9: Shock
Introduction to Critical Care Nursing
   Shock
Critical Care Nursing: A Holistic Approach
   Hypoperfusion States
      Heart Failure - Classification of Heart Failure
      Acute Myocardial Infarction - Cardiogenic Shock
      Spinal Cord Injury - Spinal Shock/Neurogenic Shock Assessment, Burns - Pathophysiological Principles

Multi-System Organ Failure
Critical Care Transport.
   Ch. 9: MSOF
Introduction to Critical Care Nursing
   Shock
   Trauma
Critical Care Nursing: A Holistic Approach
   Hypoperfusion States: Systemic Inflammatory Response Syndrome and Septic Shock
      Pathophysiology
      Assessment.
      Adult Respiratory Distress Syndrome
      Disseminated Intravascular Coagulation
      Complications of Multiple Trauma

Infection Control and Communicable Diseases
Critical Care Transport.
   Ch 18 Infectious and Communicable Diseases
Introduction to Critical Care Nursing
   Hematological and Immune Disorders.

Critical Care Nursing: A Holistic Approach
Breathing Assessment & Pulmonary Physiology
- Critical Care Transport
  - Ch 6: Respiratory Emergencies and Airway Management
- Introduction to Critical Care Nursing
  - Acute Respiratory Failure
  - Ventilatory Assistance
- Critical Care Nursing: A Holistic Approach
  - Anatomy and Physiology of the Respiratory System
  - Patient Assessment: Respiratory System
  - Common Respiratory Disorders

Portable Ventilators
- Introduction to Critical Care Nursing
- Ventilatory Assistance
- Critical Care Nursing: A Holistic Approach
  - Patient Assessment: Respiratory System
  - Ventilatory Support
  - Troubleshooting the Ventilator

Invasive Lines
- Introduction to Critical Care Nursing
- Hemodynamic Monitoring
- Critical Care Nursing: A Holistic Approach
  - Patient Assessment: Cardiovascular System
  - Hemodynamic Monitoring

Hemodynamic Monitoring
- Critical Care Transport
  - Chapter 14 Hemodynamic Monitoring
- Introduction to Critical Care Nursing
  - Hemodynamic Monitoring
- Critical Care Nursing: A Holistic Approach
  - Patient Assessment: Cardiovascular System
  - Hemodynamic Monitoring

Blood Administration
- Critical Care Transport
  - Chapter 9 Blood Products
- Introduction to Critical Care Nursing
  - Blood and Blood Products
    - Critical Care Nursing: A Holistic Approach
    - Patient Management: Cardiovascular System
    - Autologous Blood Transfusion

Cardiac Management
- Critical Care Transport
  - Ch 13: Electrophysiology, Cardiac Devices and Transport Management
- Introduction to Critical Care Nursing
  - Cardiac Alterations

12 Lead Electrocardiology
- Critical Care Transport
  - Ch 13: Electrophysiology, Cardiac Devices and Transport Management
- Introduction to Critical Care Nursing
  - Dysrhythmia Interpretation
Critical Care Nursing: A Holistic Approach
  Patient Assessment: Cardiovascular System
  12-Lead Electrocardiogram

Implantable Cardioverter Defibrillators
Introduction to Critical Care Nursing
  Implantable Defibrillators.

Critical Care Nursing: A Holistic Approach
  Patient Management: Cardiovascular System
  Implantable Cardioverter Defibrillators

Cardiac Pacemakers
Introduction to Critical Care Nursing
  Pacemakers

Critical Care Nursing: A Holistic Approach
  Patient Management: Cardiovascular System
  Cardiac Pacemakers

Intra-Aortic Balloon Pumps
Critical Care Transport,
  Ch 13: Intra-aortic Ballon Pump Therapy

Critical Care Nursing: A Holistic Approach
  Patient Management: Cardiovascular System
  Intra-Aortic Balloon Pump Counterpulsation.

Pharmacological Management
Critical Care Transport,
  Ch 7: Pharmacology

GI, GU and Renal Management
Critical Care Transport,
  Ch 15: Gastrointestinal and Genitourinary Emergencies

Introduction to Critical Care Nursing
  Gastrointestinal Alterations.

Critical Care Nursing: A Holistic Approach
  Anatomy and Physiology of the Gastrointestinal System
  Patient Assessment: Gastrointestinal System
  Anatomy and Physiology of the Renal System
  Patient Assessment: Renal System

Neurological Management
Critical Care Transport,
  Ch 11: Neurologic Emergencies

Introduction to Critical Care Nursing
  Nervous System Alterations

Critical Care Nursing: A Holistic Approach
  Anatomy and Physiology of the Nervous System
  Patient Assessment: Nervous System
  Head Injury
  Spinal Cord Injury

Intracranial Pressure (ICP) Monitoring
Critical Care Nursing: A Holistic Approach
  Patient Management: Nervous System
  Intracranial Pressure Monitoring
Transport Considerations
Critical Care Transport.
  Ch 3: Patient Safety
  Ch 4: Aircraft and Flight Physiology
  Ch 5: Patient Assessment

Special Considerations
Burns
Critical Care Transport.
  Ch 12: Burns
Introduction to Critical Care Nursing
  Burns
Critical Care Nursing: A Holistic Approach
  Burns

High Risk Obstetrics
Critical Care Transport.
  Ch 20 Obstetric and Gynecologic Emergencies

Pediatrics
Critical Care Transport.
  Ch 21: Neonatal Emergencies
  Ch 22: Pediatric Emergencies