

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

Critical Care Transport. American Academy of Orthopaedic Surgeons (AAOS), UMBC, American College of Emergency Physicians (ACEP). Boston: Jones and Bartlett Publishers, 2022. ISBN-13: 978-1284263114

OR

Air and Surface Patient Transport: Principles & Practice (5th ed.) Holleran, R. (Ed.). Philadelphia: Elsevier Health Sciences, 2018. ISBN-13: 978-0323401104 ISBN-10: 0323401104

OR

Critical Care Nursing: A Holistic Approach (11th Ed.). Morton, P., Fontaine, D., Hudak, C., Gallo, B. Philadelphia: Lippincott, 2017. ISBN-13: 978-1496315625 ISBN-10: 1496315626

OR

Introduction to Critical Care Nursing (8th Edition). Sole, Klein, Moseley.

Philadelphia: W.B. Saunders Company, 2020 ISBN-13: 978-0323641937 ISBN: 0323641938

AND

UMBC CCEMTP Student Resource Guide (*provided by UMBC*)

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

12 Lead ECG for Acute and Critical Care Providers. Page, R., Brady/Prentice Hall, 2005.

Critical Care Assessment (3rd Ed.). Talbot and Meyers-Marquardt. Baltimore, Mosby, 1997. ISBN: 0-8151-5608-1

Critical Care Medicine 2007 Edition. Brenner. California: Current Clinical Strategies Publishing, 2006.

Fetal Monitoring and Assessment (9th Ed.). Miller. Baltimore: Mosby, 2021. ISBN-13: 978-0323642606 ISBN-10: 0323642608

Guide to Fluid, Electrolyte, and Acid-Base Balance (5th Ed.). Horne, Heitz, Webber, Baltimore: Mosby, 2005. ISBN-10: 0323026036

Rapid Sequence Intubation and Rapid Sequence Airway: An Airway 911Guide. Braude. Department of Emergency Medicine, Uni. of New; 2nd Ed (1/09). ISBN-10: 057800903X ISBN-13:978-0578009032

Pharmacology (8th Ed.). Howland, Mycek, M., Harvey, R., Champe, P. Philadelphia: Lippincott Williams & Wilkins, 2022. ISBN-13: 978-1975170554 ISBN-10: 1975170555

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

Common Gastrointestinal Disorders-Hepatitis
Common Immunological Disorders- AIDS

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