

NURS 4840L - Complex Care Laboratory

Fall 2026 Syllabus, Section 04, CRN 40716,

Credit hours: 0

Instructor

Melanie Sanders

Email: mrbakes@ysu.edu

Public Instructor Information

Registered Nurse, Clinical Instructor

Professional Qualifications:

Bachelor of Science in Nursing, Youngstown State University (2021)

Office: Nursing Office, Cushwa Hall Room 2332

Office Phone: 330-941-3293

Course Description

4840L. Complex Care Laboratory. Complex Care Laboratory. 0 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Engage Adult Medical Surgical RN (modules).	ATI (2023)	
Optional	RN adult medical surgical nursing (ed. 12.0). Review Modules 2023 RN - eBook.	ATI (2023)	
Optional	High-acuity nursing (7th ed.). Pearson	Wagner, K. D., & Hardin-Pierce, M. G.	

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.



Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Tue	8/25	MODULES Critical Care Nursing: • Intro to CC & Emergency Nursing • Critical Alterations in Gas Exchange OPTIONAL: • ATI RN Adult M/S Nursing eBook: Ch.27: Resp. Failure • ATI RN Adult M/S Nursing eBook: Ch.20: Resp. Mgmt. & Mech. Vent. • Wagner & Hardin-Pierce text: Ch.1: 1-2, 7 (Intro content) • Wagner & Hardin-Pierce text: Ch.2: 20-22, 24-26 • Wagner & Hardin-Pierce text: Ch.3: 32-35, 39-41 • Wagner & Hardin-Pierce text: Ch.4: 64-69 • Wagner & Hardin-Pierce text: Ch.7: 137-168 (Resp/Vents)	Syllabus Review Intro to CC & Emergency Nursing Critical Alterations in Gas Exchange	Week 1 Clinical: campus Sim-Lab Watch assigned videos: Intro to ICU Nursing Watch assigned videos: PPT Arterial Lines video
Tue	9/1	MODULES Critical Care Nursing: • Critical Alterations in Gas Exchange - Alterations in Health: • Disrupted Homeostasis: Acid-Base imbalance info • Alterations in Gas Exchange OPTIONAL • ATI: Ch. 18: Resp. Diagnostic & Therapeutic Procedures • ATI: Ch. 46: Acid-Base imbalances • Wagner: Ch 7: 137-168 (Resp/Vents) • Wagner: Ch. 11: 289-319 (Pulm/ABGs)	Critical Alterations in Gas Exchange Disrupted Homeostasis: Acid-Base Imbalance Info Alterations in Gas Exchange	Week 2 Clinical: campus Sim-Lab Week 2 Clinical: Math Test*



Tue	9/8	MODULES Critical Care Nursing: • Critical Alterations in Gas Exchange Alterations in Health: • Disrupted Homeostasis: Acid-Base Imbalance Info OPTIONAL • ATI: Ch. 25: Pulm Embolism • ATI: Ch. 26: Pneumo/Hemothorax • ATI: Ch. 19: CT insertion & Monitoring • Wagner: Ch. 11: 289-319 (Pulm/ABGs) • Wagner: Ch. 12: 321-359 (Pulm Alterations) MODULES Critical Care Nursing: • Critical Alterations in Perfusion Alterations in Health: • Alterations in CV Function and Perfusion OPTIONAL • ATI: Ch. 28: CV Diagnostics/Procedures • ATI: Ch. 29: ECG/Dysrhythmias • Wagner: Ch. 8: 171-196 (Hemodynamics) • Wagner: Ch. 9: 198-251 (ECG)	Critical Alterations in Gas Exchange Disrupted Homeostasis: Acid-Base Imbalance Info Critical Alterations in Perfusion Alterations in CV Function and Perfusion	Hospital Clinicals Begin *Quiz 1 Monday 9/14- covers content through 9/9
Tue	9/15	MODULES Critical Care Nursing: • Critical Alterations in Perfusion Alterations in Health: • Alterations in CV Function and Perfusion OPTIONAL • ATI: Ch. 28: CV Diagnostics/Procedures • ATI: Ch. 29: ECG/Dysrhythmias • Wagner: Ch. 8: 171-196 (Hemodynamics) • Wagner: Ch. 9: 198-251 (ECG) • ATI: Ch. 30: Pacemakers/ICDs	Critical Alterations in Perfusion Alterations in CV Function and Perfusion	Virtual Application-Critical Alterations in Gas Exchange: due this Friday 9/18/26 by 11:59pm
Tue	9/22	MODULES Critical Care Nursing: • Critical Alterations in Perfusion Alterations in Health: • Alterations in CV Function and Perfusion OPTIONAL • ATI: Ch. 29: ECG/Dysrhythmias • ATI: Ch. 30: Pacemakers/ICDs • ATI: Ch. 33: HF and Pulm Edema • ATI: Ch. 34: Valvular Heart Disease • Wagner: Ch. 9: 198-251 (ECG) • Wagner: Ch. 13: 365-389 (Cardiac assessment) • Wagner: Ch. 14: 391-415 (Alt. Cardiac Fx)	Critical Alterations in Perfusion Alterations in CV Function and Perfusion	*Quiz 2 Monday 9/28 all content covered through 9/23



Tue	9/29	MODULES Critical Care Nursing: • Critical Alterations in Perfusion Alterations in Health: • Alterations in CV Function and Perfusion OPTIONAL • ATI: Ch. 31: Invasive CV Procedures • ATI: Ch. 32: Angina and MI • ATI: Ch. 33: HF and Pulm Edema • ATI: Ch. 34: Valvular Heart Disease • ATI: Ch. 39: Aneurysms • Wagner: Ch. 13: 365-389 (Cardiac assessment) • Wagner: Ch. 14: 391-415 (Alt. Cardiac Fx) • Wagner: Ch. 15: 418-440 (Alt. Myocardial Perfusion)	Critical Alterations in Perfusion Alterations in CV Function and Perfusion	*Quiz 3 - Monday 10/5 covers content through 9/30
Tue	10/6	MODULES Critical Care Nursing: • Critical Alterations in Perfusion Alterations in Health: • Alterations in CV Function and Perfusion OPTIONAL • ATI: Ch. 31: Invasive CV Procedures • ATI: Ch. 32: Angina and MI • ATI: Ch. 39: Aneurysms • Wagner: Ch. 15: 418-440 (Alt. Myocardial Perfusion)	Critical Alterations in Perfusion Alterations in CV Function and Perfusion	Wrap up of listed content/Midterm Review Comprehensive Midterm Exam - Monday 10/12
Tue	10/13	MODULES Alterations in Health • Disrupted Homeostasis: Fluid and Electrolyte Imbalance Lessons • Alterations in Kidney Function and Elimination OPTIONAL • ATI: Ch. 44: Fluid Imbalances • ATI: Ch. 45: Electrolyte Imbalances • ATI: Ch. 77: Endocrine diagnostics (SIADH & DI content) • ATI: Ch. 61: AKI content • ATI: Ch. 59: HD & Peritoneal Dialysis • Wagner: Ch. 25/26: 656-691 (F&E alterations) • Wagner: Ch. 27: 692-716 (Alterations in Kidney Function)	Disrupted Homeostasis: Fluid and Electrolyte Imbalance Lessons Alterations in Kidney Function and Elimination	



Tue	10/20	MODULES Alterations in Health: • Disrupted Homeostasis: Fluid and Electrolyte Imbalance Lessons • Alterations in Kidney Function and Elimination OPTIONAL • ATI: Ch. 44: Fluid Imbalances • ATI: Ch. 45: Electrolyte Imbalances • ATI: Ch. 77: Endocrine diagnostics (SIADH & DI content) • ATI: Ch. 61: AKI content • ATI: Ch. 59: HD & Peritoneal Dialysis • Wagner: Ch. 25/26: 656-691 (F&E alterations) • Wagner: Ch. 27: 692-716 (Alterations in Kidney Function) MODULES Alterations in Health: • Alterations in Digestion and Bowel Elimination • Alterations in Hematologic Function OPTIONAL • ATI: Ch. 47: GI Diagnostic Procedures • ATI: Ch. 48: GI Therapeutic Procedures • ATI: Ch. 56: Hepatitis/Cirrhosis • ATI: Ch. 54: Cholecystitis/Pancreatitis • Wagner: Ch. 23: 619-634 (Alterations in Liver Function) • Wagner: Ch. 24: 636-653 (Alterations in Pancreas Function)	Disrupted Homeostasis: Fluid and Electrolyte Imbalance Lessons Alterations in Kidney Function and Elimination Alterations in Digestion and Elimination Alterations in Hematological Function	Virtual Application: Disrupted Homeostasis due Friday 10/23/26 by 11:59pm
-----	-------	--	--	--



Tue	10/27	MODULES: Alterations in Health: • Alterations in Digestion and Bowel Elimination • Alteration in Hematologic Function OPTIONAL • ATI: Ch. 47: GI Diagnostic Procedures • ATI: Ch. 48: GI Therapeutic Procedures • ATI: Ch. 56: Hepatitis/Cirrhosis • ATI: Ch. 54: Cholecystitis/Pancreatitis • Wagner: Ch. 23: 619-634 (Alterations in Liver Function) • Wagner: Ch. 24: 636-653 (Alterations in Pancreas Function) MODULES Critical Care Nursing: • Critical Neurologic Dysfunction • Intro to CC (Triage and Burns) Alterations in Health: • Alterations in Neurologic Function • Alterations in Tissue Integrity OPTIONAL • ATI: Ch. 15: Head Injury • ATI: Ch. 76: Burns • Wagner: Ch. 16: 443-473 (Cerebral Perfusion) • Wagner: Ch. 36: 906-929 (Acute Burn Injury)	Alterations in Digestion and Bowel Elimination Alterations in Hematologic Function Critical Neurologic Dysfunction Intro to CC (Triage and Burns) Alterations in Neurologic Function Alterations in Tissue Integrity	*Quiz 4 - Monday 11/2 content covered through 10/28 Concept Maps Due 11/2/2026 to Clinical Instructor
Tue	11/3	MODULES Critical Care Nursing: • Critical Neurologic Dysfunction • Intro to CC (Triage and Burns) Alterations in Health: • Alterations in Neurologic Function • Alterations in Tissue Integrity OPTIONAL • ATI: Ch. 15: Head Injury • ATI: Ch. 76: Burns • Wagner: Ch. 16: 443-473 (Cerebral Perfusion) • Wagner: Ch. 36: 906-929 (Acute Burn Injury)	Critical Neurologic Dysfunction Intro to CC (Triage and Burns) Alterations in Neurologic Function Alterations in Tissue Integrity	Virtual Application: Critical Neurological Dysfunction due Friday 11/6/2026 by 11:59PM ATI Practice A Due Sunday 11/8/2026 Research Articles Due 11/9/2026 to Clinical Instructor



Tue	11/10	MODULES Critical Care Nursing: • Critical Neurologic Dysfunction • Intro to CC (Triage and Burns) • Critical Alterations in Perfusion Alterations in Health: • Alterations in Neurologic Function • Alterations in Tissue Integrity • Alterations in Spinal Cord Function OPTIONAL • ATI: Ch. 15: Head Injury • ATI: Ch. 76: Burns • ATI: Ch. 38: Shock • ATI: Ch. 43: Coagulation Disorders (DIC) • Wagner: Ch. 16: 443-473 (Cerebral Perfusion) • Wagner: Ch. 36: 906-929 (Acute Burn Injury) • Wagner: Ch. 37/38: 932-973 (Shock/ MODS)	Critical Neurologic Dysfunction Intro to CC (Triage and Burns) Alterations in Neurologic Function Alterations in Tissue Integrity Alterations in Perfusion Alterations in Spinal Cord Function	ATI Practice B due Sunday 11/15/2026 *Quiz 5 - Monday 11/16 - Any recorded content will be on Quiz 5 - content through 11/11
Tue	11/17	MODULES Critical Care Nursing: • Critical Endocrine Dysfunction Alterations in Health: • Alterations in Endocrine Dysfunction OPTIONAL • ATI: Ch. 77: Endocrine Diagnostics • ATI: Ch. 82: Acute Adrenal Crisis • ATI: Ch. 84: Complications of Diabetes • Wagner: Ch. 32: 820-838 (Metabolic Stress Response) • Wagner: Ch. 33: 841-861 (Diabetic Crisis) ATI RN PHARMACOLOGY 2023 EXAM	Critical Endocrine Dysfunction Alterations in Endocrine Dysfunction	Clinical Presentations Week (In Clinical) Virtual Application: Critical Endocrine Dysfunction due Friday 11/20/2026 by 11:59PM *In Class ATI Pharmacology Exam - Monday 11/23
Tue	11/24	No Clinical-Assignment will be submitted		
Tue	12/1	Catch Up and Final Review in class Final Exam	Final Exam	Clinical Simulation Week - On Campus Final Exam Review Comprehensive Final Exam - Monday 12/7/2026 (08:00AM-10:00AM)
Tue	12/8	No Class		

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.