

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY of MEDICALS & APPLIEED

SCIENCES



Program Anesthesia Technician

Course Specification of Essential of Critical care Medicine

Course No. (08 05 843)
2024

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Morsal AL-najir	Dr. fahni al -absi	Dr.Fares Mahdi	Dr. Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak

Template for Course Specification

I. Course Identification and General Information:				
1	Course Title:	Essential of Critical care Medicine		
2	Course Code & Number:	08 05 843		
3	Credit Hours:	Credit Hours	Theory Hours	
			Lecture	Field
		2	2	--
				Lab. Hours
				--
4	Study Level/ Semester at which this Course is offered:	Level3\1term		
5	Pre –Requisite (if any):	None		
6	Co –Requisite (if any):	None		
7	Program (s) in which the Course is Offered:	Bachelor of Anesthesia Technician		
8	Language of Teaching the Course:	English		
9	Study System:	Semester Based System		
10	Mode of Delivery:	Full Time		
11	Location of Teaching the Course:	Faculty of Medical Applied Science		
12	Prepared by:	Associate Prof. Morsal AL-najir		
	Date of Approval:	2024-1446 ^{Ah}		

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
Dr. Morsal AL-Najar	Dr. fahni al -absi	Dr.Fares Mahdi	Dr. Fadl Shujaa Al-deen	Dr. Abdulsalam Dallak

II. Course Description:

This course provides a comprehensive introduction to the principles and practices essential for managing critically ill patients. Designed for healthcare professionals, including physicians, nurses, and allied health staff, the curriculum emphasizes both theoretical knowledge and practical skills in critical care settings.

III. Course Intended Learning Outcomes (CILOs) : (مخرجات تعلم المقرر)

A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Identify the signs of sepsis and implement appropriate protocols for early recognition and treatment, including the use of antibiotics and fluid management.	A1	Demonstrate the concepts and principles of anesthesia and different basic and humanities courses and its applications in anesthesia practice
a2	Understand the pharmacological agents commonly used in critical care, including sedatives, analgesics, vasopressors, and their role in patient management.	A4	Describe normal and abnormal human behaviors, structure and function of human body and identify the basics of intensive care, medical emergencies that the anesthetist and high dependency care units and how to manage patients at risk.
a3	Recognize the importance of quality improvement initiatives in critical care and contribute to efforts aimed at enhancing patient safety and outcomes	A3	Recognize the full details about the basic physics and its applications in anesthesia, the equipment's and apparatus in anesthesia and critical care unit.

B. Intellectual Skills: Upon successful completion of the course, students will be able to:

b1	Effectively assess and interpret the clinical condition of critically ill patients, including vital signs, laboratory results, and imaging studies	B2	integrate assessment data to formulate anesthesia diagnosis.
b2	Demonstrate the ability to perform advanced airway management techniques	B3	synthesize knowledge derived from, medical, anesthesia, basic sciences and humanities courses into the practice of anesthesia

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B3	Explain their indications, contraindications, and potential complications	B3	Interpret the basic normal anatomical structures on radiographs, C.T. scans and magnetic resonance images and readings of the standard monitors attached to the patient as well as additional monitors as central venous pressure monitoring
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:			
c1	Acquire skills in interpreting hemodynamic data and applying this knowledge to manage fluid resuscitation and vasoactive medication therapy.	C1	Administer a range of assessment techniques, procedures and management appropriate to patient condition and maintain fluid therapy and blood transfusion.
c2	Critically evaluate current literature and practice guidelines related to critical care interventions, applying evidence-based approaches to clinical decision-making.	C2	Perform an approach to the assessment of risk and need for consultation for an anesthetics, identify appropriate laboratory investigations, pre-medications and fasting guidelines and Set up anesthesia machine and its connections and demonstrate appropriate application and interpretation of commonly used monitors in anesthesia preoperatively
C3	Engage effectively with multidisciplinary teams, facilitating communication and collaboration to enhance patient-centered care.	C3	Apply the skills necessary for maintaining a patent airway, manual ventilation, intubation and mechanical ventilation. and Perform the proper technique of anesthesia (general, regional or local anesthesia)
D. Transferable Skills: Upon successful completion of the course, students will be able to:			
d1	Communicate with the patient and his family effectively in professional manner using the principles of communication techniques	D1	Communicate effectively with individuals and groups and members of the health team in order to promote effective interpersonal relationships and teamwork
d2	Discuss the legal and ethical issues that arise in the emergency care setting.	D2	Demonstrate professional, ethical, moral, legal, and spiritual concepts into one's practice within a global environment

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(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:				
Course Intended Learning Outcomes		Teaching Strategies		Assessment Strategies
a1	Identify the signs of sepsis and implement appropriate protocols for early recognition and treatment, including the use of antibiotics and fluid management.	▪ Interactive lecture ▪ Seminars and student presentations ▪ Brain storming, role-play and simulation ▪ Small group for discussing		▪ Assignments ▪ Quizzes ▪ Mid-term Exam ▪ Final exam ▪ Presentations
a2	Understand the pharmacological agents commonly used in critical care, including sedatives, analgesics, vasopressors, and their role in patient management.	▪ Interactive lecture ▪ Seminars and student presentations ▪ Brain storming, role-play and simulation ▪ Small group for discussing		▪ Assignments ▪ Quizzes ▪ Mid-term Exam ▪ Final exam ▪ Presentations
a3	Recognize the importance of quality improvement initiatives in critical care and contribute to efforts aimed at enhancing patient safety and outcomes	▪ Interactive lecture ▪ Seminars and student presentations ▪ Brain storming, role-play and simulation ▪ Small group for discussing		▪ Assignments ▪ Quizzes ▪ Mid-term Exam ▪ Final exam ▪ Presentations
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:				
Course Intended Learning Outcomes		Teaching Strategies		Assessment Strategies

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b1	Effectively assess and interpret the clinical condition of critically ill patients, including vital signs, laboratory results, and imaging studies	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student presentations	- Assignments - Quizzes - Mid-term Exam - Final exam
b2	Demonstrate the ability to perform advanced airway management techniques	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student presentations	- Assignments - Quizzes - Mid-term Exam - Final exam
Explain their indications, contraindications, and potential complications			
Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Acquire skills in interpreting hemodynamic data and applying this knowledge to manage fluid resuscitation and vasoactive medication therapy.	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam
c2	Critically evaluate current literature and practice guidelines related to critical care interventions, applying evidence-based approaches to clinical decision-making.	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam
C3	Engage effectively with multidisciplinary teams, facilitating communication and collaboration to enhance patient-centered care.	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam

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(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Communicate with the patient and his family effectively in professional manner using the principles of communication techniques	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities
d2	Discuss the legal and ethical issues that arise in the emergency care setting.	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Introduction to Critical Care: - Overview of critical care medicine - Organization of critical care services - Ethical considerations and end-of-life care - Pathophysiology of critical illness		1	2	a1, d2

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2	Physiology and Pathophysiology	- Basic physiology pertinent to critical care - Pathophysiology of common critical illnesses - Organ system failure and management - Assessment and monitoring of the critically ill patient	1	2	a3, b3
3	Monitoring and Assessment	- Techniques for monitoring critically ill patients - Hemodynamic monitoring - Neurological assessments - Advanced airway management and ventilation strategies	1	2	a1, b1, c1, d1
4	Respiratory Care	- Advanced airway management - Mechanical ventilation principles - Management of respiratory failure (both ARDS and COPD) - Hemodynamic monitoring and	3	6	a1, c1, d1

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		management			
5	Cardiovascular Management:	- acute coronary syndromes - Fluid resuscitation and shock management - Arrhythmias and cardiovascular support	1	2	a1, b1, c1, d1
		• exam	1	2	
6	Fluid and Electrolytes:	- Pharmacology in critical care Fluid and Electrolytes: - Principles of fluid therapy - Electrolyte imbalances and management strategies - Sepsis management and infection control	2	4	a2, b2, c2, d2
7	Infectious Diseases	- Approach to sepsis and shock - Antibiotic stewardship - Infection control in the ICU - Ethical considerations in critical care medicine - Multidisciplinary approaches	3	6	a2, c2, d2

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		to patient care			
8	Renal and Gastrointestinal Care Neurological Care: Pediatric and Obstetric Considerations Emerging Topics and Future Directions:	• 1. Renal and Gastrointestinal Care: - Acute kidney injury and renal replacement therapy - Nutritional support and metabolic considerations in critically ill patients 2. Neurological Care: - Management of neurological emergencies - Stroke care and neuromonitoring 3. Pediatric and Obstetric Considerations: - Special considerations in managing critically ill children - Critical care in pregnancy 4. Emerging Topics and Future Directions: - Innovations in critical care technology - Research and clinical trial considerations	2	4	a2, c2, d2.C3

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	Final term exam	Final term exam	1	2	a2, b2, c2, d2
Number of Weeks /and Units Per Semester			16	32	

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	None			
Number of Weeks /and Units Per Semester				

C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	None			
Number of Weeks /and Units Per Semester				

V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

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VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: common abbreviations	W5	5	a1, b1
2	Assignment 2: drug classification	W11	5	a2, b2,
Total			10	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
Total			100	100%	

IX. Learning Resources:

Prepared by:	Reviewed by:	Head of the Department:	Quality Unit:	Dean
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- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

1- Required Textbook(s) (maximum two): مثال example

"Fundamentals of Critical Care Medicine" - American Association of Critical-Care Nurses ○

A comprehensive textbook covering essential topics in critical care. .a

"Critical Care Medicine: A Complete Review" by Peter J. Papadakos and Wolfgang J. Zuckerman ○

This book provides an extensive review of critical care concepts and practices. .a

"The ICU Book" by Marino PL ○

A well-regarded resource for both beginners and experienced clinicians in critical care settings. .a

"Principles of Critical Care" by Tisherman SA, et al. ○

Covers the fundamental principles guiding critical care management. .a

"Clinical Practice Guidelines for the Management of Patients with Sepsis and Septic Shock" - Surviving Sepsis Campaign ○

These guidelines are useful for understanding sepsis management in the ICU. .a

"Advanced Cardiovascular Life Support (ACLS) Provider Manual" ○

○

Vital for understanding emergency responses in critical care situations. .a

"Manual of Critical Care Nursing" by J. M. O'Brien ○

Explores nursing practices specific to critical care environments. .a

"Fundamentals of Mechanical Ventilation" by Brochard L and Quintard H ○

Focuses on the principles and management of mechanical ventilation. .a

"Pharmacology for the Critical Care Provider" by Kelly O. McGowan ○

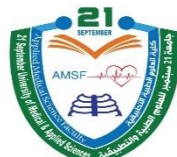
This text provides insight into the pharmacologic interventions commonly used in .a

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critical care.
"Trauma Surgery and Critical Care" by Paul A. O'Connor and Henry E. Wang ○
○ Covers the intersection of trauma management and critical care principles.
○
3- Electronic Materials and Web Sites etc.:
Websites: https://pmc.ncbi.nlm.nih.gov/articles/PMC2945120/
1.

X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)	
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University

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Program Anesthesia Technician

Course Specification of Essential of Critical care Medicine

Course No. (08 05 843)

2024

Template for Course Syllabus

i. معلومات عن أستاذ المقرر Information about Faculty Member Responsible for the Course							
(3 / أسبوعيا)			الساعات المكتبية (أسبوعيا) Office Hours			Dr. Morsal AL-Najar	الاسم Name
الخميس THU	الأربعاء WED	الثلاثاء TUE	الاثنين MON	الأحد SUN	السبت SAT		المكان ورقم الهاتف Location & Telephone No.
							البريد الإلكتروني E-mail
I. Course Identification and General Information:							
1	Course Title:					Essential of Critical care Medicine	
2	Course Code & Number:					08 05 843	
3	Credit Hours:					Credit Hours	Theory Hours Lecture Field
						2	2
4	Study Level/ Semester at which this Course is offered:					Level3\term1	
5	Pre –Requisite (if any):					None	
6	Co –Requisite (if any):					None	

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7	Program (s) in which the Course is Offered:	Bachelor of Anesthesia Technician
8	Language of Teaching the Course:	English
9	Study System:	Semester Based System
10	Mode of Delivery:	Full Time
11	location of teaching the course:	faculty of medical applied science
12	prepared by:	dr. Morsal AL-Najar
13	date of approval:	2024-1446 ^{ah}

ii. course description:

This course provides a comprehensive introduction to the principles and practices essential for managing critically ill patients. Designed for healthcare professionals, including physicians, nurses, and allied health staff, the curriculum emphasizes both theoretical knowledge and practical skills in critical care settings.

course intended learning outcomes (cilos)

a1	Identify the signs of sepsis and implement appropriate protocols for early recognition and treatment, including the use of antibiotics and fluid management.
a2	Understand the pharmacological agents commonly used in critical care, including sedatives, analgesics, vasopressors, and their role in patient management.
a3	Recognize the importance of quality improvement initiatives in critical care and contribute to efforts aimed at enhancing patient safety and outcomes
b1	Effectively assess and interpret the clinical condition of critically ill patients, including vital signs, laboratory results, and imaging studies
b2	Demonstrate the ability to perform advanced airway management techniques
c1	Acquire skills in interpreting hemodynamic data and applying this knowledge to manage fluid resuscitation and vasoactive medication therapy.
c2	Critically evaluate current literature and practice guidelines related to critical care

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	interventions, applying evidence-based approaches to clinical decision-making.
C3	Engage effectively with multidisciplinary teams, facilitating communication and collaboration to enhance patient-centered care.
d1	Communicate with the patient and his family effectively in professional manner using the principles of communication techniques
d2	Discuss the legal and ethical issues that arise in the emergency care setting.

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Introduction to Critical Care:	- Overview of critical care medicine - Organization of critical care services - Ethical considerations and end-of-life care - Pathophysiology of critical illness	1	2	a1, d2
2	Physiology and Pathophysiology	- Basic physiology pertinent to critical care - Pathophysiology of common critical illnesses - Organ system failure and management	1	2	a3, b3

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		Assessment and monitoring of the critically ill patient			
3	Monitoring and Assessment	- Techniques for monitoring critically ill patients - Hemodynamic monitoring - Neurological assessments - Advanced airway management and ventilation strategies	1	2	a1, b1, c1, d1
4	Respiratory Care	- Advanced airway management - Mechanical ventilation principles - Management of respiratory failure (both ARDS and COPD) - Hemodynamic monitoring and management	3	6	a1, c1, d1
5	Cardiovascular Management:	- Acute coronary syndromes - Fluid resuscitation and shock management - Arrhythmias and cardiovascular support	1	2	a1, b1, c1, d1

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		• exam	1	2	
6	Fluid and Electrolytes:	Pharmacology in critical care • Fluid and Electrolytes: • Principles of fluid therapy ○ Electrolyte imbalances and management strategies ○ Sepsis management and infection control •	2	4	a2, b2, c2, d2
7	Infectious Diseases •	Approach to sepsis and shock ○ Antibiotic stewardship ○ Infection control in the ICU ○ • Ethical considerations in critical care medicine • Multidisciplinary approaches to patient care • •	3	6	a2, c2, d2
8	Renal and Gastrointestinal Care ○ Neurological Care:	Renal and Gastrointestinal Care: .5 Acute kidney injury and renal replacement therapy ○ Nutritional support and metabolic ○	2	4	a2, c2, d2.C3

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	: Pediatric and Obstetric Considerations Emerging Topics and Future Directions:	considerations in critically ill patients Neurological Care: .6 - Management of neurological emergencies - Stroke care and neuromonitoring Pediatric and Obstetric Considerations: .7 - Special considerations in managing critically ill children - Critical care in pregnancy Emerging Topics and Future Directions: .8 - Innovations in critical care technology - Research and clinical trial considerations			
	Final term exam	Final term exam	1	2	a2, b2, c2, d2
Number of Weeks /and Units Per Semester			16	32	

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B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	None			
Number of Weeks /and Units Per Semester				

C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	None			
Number of Weeks /and Units Per Semester				

V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

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VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: common abbreviations	W5	5	a1, b1
2	Assignment 2: drug classification	W11	5	a2, b2,
Total			10	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1, d1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2, d2
Total			100	100%	

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IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

1- Required Textbook(s) (maximum two): مثال example

"Fundamentals of Critical Care Medicine" - American Association of Critical-Care Nurses ○

A comprehensive textbook covering essential topics in critical care. .a

"Critical Care Medicine: A Complete Review" by Peter J. Papadakos and Wolfgang J. Zuckerman ○

This book provides an extensive review of critical care concepts and practices. .a

"The ICU Book" by Marino PL ○

A well-regarded resource for both beginners and experienced clinicians in critical care settings. .a

"Principles of Critical Care" by Tisherman SA, et al. ○

Covers the fundamental principles guiding critical care management. .a

"Clinical Practice Guidelines for the Management of Patients with Sepsis and Septic Shock" - Surviving Sepsis Campaign ○

These guidelines are useful for understanding sepsis management in the ICU. .a

"Advanced Cardiovascular Life Support (ACLS) Provider Manual" ○

○

Vital for understanding emergency responses in critical care situations. .a

"Manual of Critical Care Nursing" by J. M. O'Brien ○

Explores nursing practices specific to critical care environments. .a

"Fundamentals of Mechanical Ventilation" by Brochard L and Quintard H ○

Focuses on the principles and management of mechanical ventilation. .a

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"Pharmacology for the Critical Care Provider" by Kelly O. McGowan ○

This text provides insight into the pharmacologic interventions commonly used in critical care.

"Trauma Surgery and Critical Care" by Paul A. O'Connor and Henry E. Wang ○

- Covers the intersection of trauma management and critical care principles.
-

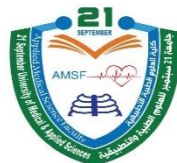
3- Electronic Materials and Web Sites etc.:

Websites: <https://www.tru.ca/distance/courses/anes4031.html>

X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with

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all rules and regulations of the examination set by the Department, Faculty and University Administration.

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