



**Philadelphia University  
School of Nursing  
Second Semester, 2020 /2021**

<b><u>Course Syllabus</u></b>	
<b>Course Title:</b> : Critical Care Nursing (theory)	<b>Course code:</b> ( 911410 )
<b>Course Level:</b> 4 <sup>th</sup> year	<b>Course prerequisite(s) and/or Co-requisite(s):</b> (0911223, 0910230)
<b>Lecture Time:</b> Tuesday: 1-4pm	<b>Credit hours:</b> 3 Credit hours

**Academic Staff Specifics**

- **Name:** Dr. Mayada Daibes (PhD, CNS)
- **Office number and Location:** 092404, 2nd floor, Nursing School
- **Office Hours:**
- **Contact Information: Extension Phone Number:** 2116

**E-mail Address:** [mdaibes@philadelphia.edu.jo](mailto:mdaibes@philadelphia.edu.jo)

**Web Page Address:** <http://www.philadelphia.edu.jo/academics/mdaibes/>

**Course Description:**

*"Critical care nursing deals with human responses to life-threatening health problems. Critically ill patients continue to have high levels of acuity and complex care needs" (1: p-xiii).*

This course provides student nurses with knowledge in concepts of critical care nursing which is foundational for their practice in critical environment. Through this course, students will learn the assessment and technical skills necessary for management of critical health conditions. This course was organized to help students to develop their critical care thinking, with emphasis on developing skills of analysis, synthesis, and application of knowledge in practice. Critical care nursing course begins with introducing and defining the critical care environment. Then, it provides students with brief knowledge regarding anatomy and physiology of each body system. Disorders of each body system most commonly recognized as highly critical will be introduced along with multidisciplinary management of each condition, the role of nurses in its management, and critical thinking cases.

### **Course Objectives:**

- This course aims to provide student nurses with solid knowledge foundation of assessment and technical skills necessary for management of critical health conditions

### **Course Components:**

- Introduction to critical care environment.
- Introduction to symptoms management in critical care units, such as nausea, vomiting, diarrhea, dyspnea, and delirium.
- Pain and sedation.
- Nutrition of critically ill patients.
- Critical Cardiovascular conditions.
- Critical respiratory and pulmonary health conditions.
- Critical renal disorders.
- Critical and life-threatening nervous health conditions, such as Increased ICP..
- Critical hematologic health conditions such as Disseminated intravascular Coagulation (DIC).
- Critical endocrinal health conditions such as DKA and Thyrotoxicosis..

### **Textbook:**

1. **Morton, P.; Fontaine, D.(2018) Critical Care Nursing: A holistic Approach. [11<sup>th</sup> Ed.]. Lippincott Williams and Wilkins: Philadelphia, USA.**
2. Perrin, K.; MacLeod, C. (2013) Understanding the essentials of critical care nursing. Pearson: USA.

In addition to the above, the students will be provided with handouts by the lecturer  
Additional references the student have the responsibility to study:

1. Jones, J., & Fix, B. (2019). *Critical Care Notes Clinical Pocket Guide*. FA Davis.
2. Carlson, K. (ed.) (2009). AACN Advanced Critical Care Nursing. Saunders Elsevier: St. Louis, Missouri.
3. Sole, M.; Klein, D.; Moseley, M. (2009) Introduction to Critical Care Nursing. [5<sup>th</sup> Ed.]. Saunders Elsevier: St. Louis, Missouri.

### **Teaching Methods:**

- Interactive Lecture, discussion, , Reading Assignment

### **Learning Outcomes:**

- **Knowledge and understanding**
  - Identify the scope of critical care nursing
  - Discuss the needs / problems of patients in critical illness
  - Demonstrate an understanding of nursing management for patient with sleep deprivation.
  - Demonstrate an understanding of most common symptoms among critically ill patient and its management.
  - Recognize the different types of delirium in critically ill patient and its nursing management

- Describe the nursing interventions for the different pulmonary alterations in critically ill patient
  - such as acute respiratory failure, ARDS...etc
  - Demonstrate an understanding of the different modes and settings of the mechanical ventilation
  - Discuss the nursing management of mechanically ventilated patient
  - Describe the nursing interventions for patient with the different cardiovascular alterations such as angina pectoris, myocardial infarction, cardiac dysrhythmias....etc
  - Discuss the nursing management of patient with cardiac pacemaker
  - Discuss the role of nurse regarding patient undergoing cardiac catheterization & cardiac surgery
  - Discuss nursing management of the different neurological alterations such as cerebrovascular stroke , increased intracranial pressure ....etc
  - Discuss nursing management of the different endocrinal alterations such as diabetic coma ... etc
  - Discuss nursing management of the different renal alterations such as acute renal failure.
  - Discuss nursing management of disseminated intravascular coagulopathies and blood hemostasis.
- **Cognitive skills (thinking and analysis).**
    - Demonstrate the ability to analyze ECG tracing
    - Demonstrate ability to Interpret ABGs analysis results
    - Recognize the different types of dysrhythmias from ECG tracing
    - Demonstrate ability to select the appropriate nursing diagnosis for critically ill patient with the different body systems alterations
- **Communication skills (personal and academic).**
    - Recognize the different methods of communications with critically ill patient
    - Recognize the important data to communicate both verbally and non-verbally.
    - Identify the proper documentation of the pertinent data.
    - Demonstrate ability to use stress reliving techniques with the patient and family.
    - Apply code of ethics and nursing morals in dealing with patients in critical conditions, especially those associated with privacy and confidentiality.

**Assessment instruments:**

- Quizzes
- Exams

**Course Evaluation**

<b><u>Allocation of Marks</u></b>	
<b>Assessment Instruments</b>	<b>Mark</b>
Mid term examination (11 <sup>th</sup> week)	30%
Quizzes, attendance	30%
Final Exam	40%
Total	100%

\* Make-up exams will be offered for valid reasons only with consent of the Dean. Make-up exams

may be different from regular exams in content and format.

**Course Academic Calendar**

<b>Week</b>	<b>Lecture outline</b>	<b>Notes</b>
1.	Course Introduction Scope of critical care nursing	
	Nutritional support for critically ill patients (chapter 40)	
2.	Symptom management for critically ill patient (nausea and vomiting, diarrhea, dyspnea, delirium...etc) (Chapter 6)	
	Cardiovascular system:- Anatomy and functions (chapter 16)	
3.	Review of Assessment of Clients with CVS Conditions (chapter 17, 18)	
	Review of Assessment of Clients with CVS Conditions (Chapter 17, 18)	
4.	ECG AND CARDIAC DYSRHYTHMIAS (Chapter 17)	
	ECG AND CARDIAC DYSRHYTHMIAS (Chapter 17)	
5.	ECG AND CARDIAC DYSRHYTHMIAS (Chapter 17)	
	ECG AND CARDIAC DYSRHYTHMIAS (Chapter 17)	
6.	ECG AND CARDIAC DYSRHYTHMIAS (Chapter 17)	
	Cardiomyopathies (chapter 19)	
7.	Cardiomyopathies (chapter 19)	
	Endocarditis (Chapter 19)	
8.	Myocarditis (Chapter 19) Pericardial disease (Chapter 19)	
	Vascular alterations: 1. Aortic Aneurysm 2. Aortic Dissection (chapter 19)	

9.	Interventional cardiology, stent, (PTCA) & Surgical revascularization (CABG) (chapter 18, 22)	
	Surgical revascularization (CABG) (chapter 22)	
10.	Management of patient with shocks and sepsis (	
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11.	Respiratory anatomy, diagnostic procedures, respiratory management and therapies) (chapter 22, 23, 24)	
12.	Acute Respiratory Failure and respiratory distress syndrome (chapter 26, 27)	
	Concepts in Mechanical ventilation (Chapter 25)	
13.	Concepts in Mechanical ventilation	
	Immuno-Hematology: - Disorders of Hemostasis (Immune Disseminated Intravascular Coagulation (DIC) (chapter 49)	
14.	Cerebral hemorrhagic stroke and ischemia (Chapter 35)	
	Intracranial dysfunction (Chapter 34)	
15.	Acute renal failure (Chapter 31)	
	Gastrointestinal bleeding Acute pancreatitis (chapter 41)	
<b>Note</b>	<b>Further topics might be suggested in case of need for extending your knowledge in specific areas. These topics will be added in accordance.</b>	

### **Attendance Policy:**

- Absence from lectures and/or tutorials shall not exceed 15%.
- Absence will lead to decrease in the score of professional behavior & score of participation.
- In case of absence because of presence of first or second or final exam for any other subject in the same time, the student must inform the teacher in advance and submit a signed document from the teacher of other subject reveals this in the day just after absence. (Students in this case are responsible to understand and study the given material).

- Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course.
- If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

### **Documentation and Academic Honesty**

- Submit your homework covered with a sheet containing your name, University number, course title and number.

Any completed homework must be handed in on the due date. Submission after the deadline will lead to one grade decrease in the score of the home work for each delayed day in addition to decrease in score of professional behavior. After the deadline “zero” will be awarded. You must keep a duplicate copy of your work because it may be needed while the original is being marked.

#### **• Protection by Copyright**

1. Course work, reports, and essays submitted for assessment must be your own work, unless in the case of group projects a joint effort is expected and is encouraged.
2. Use of quotations or data from the work of others is entirely acceptable, and is often very valuable provided that the source of the quotation or data is given. Failure to provide a source or put quotation marks around material that is taken from elsewhere gives the appearance that the comments are ostensibly your own. When quoting word-for-word from the work of another person quotation marks or indenting (setting the quotation in from the margin) must be used and the source of the quoted material must be acknowledged.
3. Sources of quotations used should be listed in full in a bibliography at the end of your piece of work.

#### **• Avoiding Plagiarism**

1. Unacknowledged direct copying from the work of another person, or the close paraphrasing of somebody else's work, is called plagiarism and is a serious offence, equated with cheating in examinations. This applies to copying both from other students' work and from published sources such as books, reports or journal articles.
2. Paraphrasing, when the original statement is still identifiable and has no acknowledgement, is plagiarism. A close paraphrase of another person's work must have an acknowledgement to the source. It is not acceptable for you to put together unacknowledged passages from the same or from different sources linking these together with a few words or sentences of your own and changing a few words from the original text: this is regarded as over-dependence on other sources, which is a form of plagiarism.
3. Direct quotations from an earlier piece of your own work, if not attributed, suggest that your work is original, when in fact it is not. The direct copying of one's own writings qualifies as plagiarism if the fact that the work has been or is to be presented elsewhere is not acknowledged.
4. Plagiarism is a serious offence and will always result in imposition of a penalty. In deciding upon the penalty the Department will take into account factors such as the year of study, the

extent and proportion of the work that has been plagiarized, and the apparent intent of the student. The penalties that can be imposed range from a minimum of a zero mark for the work (without allowing resubmission) through caution to disciplinary measures (such as suspension or expulsion).