

**University of Jordan**  
**Faculty of Nursing**

Course title: Critical care nursing (2)  
Course number: 0702723  
Credit hours: 3 credit hours (1 hour theory & 2 hours clinical)  
Semester: 1st, 2009/2010  
Course coordinators:

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**Course Description and Objective**

This course prepares the nurse to practice as an advanced practitioner in providing care to critically ill patients and their families. The course is composed of theoretical part and clinical part, the theoretical component of the course will focus on the psychosocial health and other issues within the critical care environment. These patterns will guide the discussions concerning the health and nursing care needs of critically ill patients in addition to utilizing the nursing process in providing nursing care for this group of patients. Students are expected to read the latest literature related to the topics of discussion. The practicum will focus on providing the students with relevant clinical experience in a variety of critical care settings.

**Intended Learning Outcomes**

At the end of the course students are expected to be able to:

**A. Knowledge and Understanding**

1. Demonstrate in depth knowledge of related science that supports safe and appropriate nursing interventions to the critically ill patient.
2. Discuss the psychosocial aspects of patients' care in the intensive care setting.

**B. Cognitive and Intellectual Skills**

1. Apply appropriate nursing theories and frameworks in managing the care of the critically ill patient.
2. Critically examine current literature related to specific therapies in the intensive care unit and utilize up-to-date research findings in the management of critically ill patients as appropriate.

3. Develop nursing care tools (protocols, clinical pathways, and algorithms) to manage the care of critically ill patient.
4. Demonstrate critical thinking abilities during theory class discussions and during clinical practice.
5. Analyze the professional, ethical and legal nursing concepts related to the critical care setting.

#### **C. Subject specific Skills**

1. Disseminate current advances in the nursing management of critically ill patient among nurses and other members of the health team.
2. Assess, Plan, implement and evaluate the nursing care of the critically ill patient and their family.

#### **D. Transferable Skills**

1. Demonstrate effective and appropriate decision-making abilities during clinical practice.
2. Execute all clinical nursing procedures in a professional, skillful and artistic manner.
3. Show the ability and willingness to work as a professional role model for fellow nurses in the intensive care unit.
4. Demonstrate professional writing skills.

#### **Learning and teaching strategies.**

The course is designed for post-graduate nursing students. It is assumed that the participants are self-motivated and mature learners who would be self-directed for the most part of the course. Critical thinking should form the umbrella under which all course activities would fall. However the following methods will be utilized during the course to enhance the learning experience of the participants:

*Clinical training and clinical reports*

*Group discussions.*

*Selected self readings*

*Written assignments*

*Student's presentations*

*Interactive lectures*

*Guest speakers*

*Use of electronic resources (Internet & databases)*

In addition, when attending the theory class, each student is expected to bring with him/her an up-to-date journal article focuses on the topic of concern for the class in that day. This article will be discussed with the class and kept with the student. Check on this activity will be on random bases; however failure to present an article when requested by the course leader will result in deducting of 1% of the total student's mark.

### **Evaluation Methods and conversion scale\***

➤			Marks range	Letter mark
➤	Final exam	25%		
➤	Midterm exam/Written	20%	<b>86-100</b>	<b>A</b>
			<b>79-85</b>	<b>B+</b>
➤	Clinical reports (see details)	10%	<b>72-78</b>	<b>B</b>
➤	Written clinical paper (see details)	15%	<b>68-71</b>	<b>C+</b>
➤	Clinical evaluation	10%	<b>67 and below</b>	<b>C</b>
➤	Oral clinical exam (see details)	10%		
➤	Presentation	10%		
➤	<b>Total</b>	<b>100%</b>		

### **Clinical Placement**

Clinical practice hours are 16 per week (2 credit hours). Students are expected to work morning (A) shift and start at the time of the shift report depending on the institution that they work in. Students are expected to take full responsibilities for their patients' care and to work in the capacity of a registered nurse. Students should utilize up-to-date knowledge and assume total patient's care abilities that are guided by critical thinking, autonomy and patient's advocacy.

**Each student must prepare his/her weekly schedule in coordination with the unit supervisor and his/her schedule should be submitted to the clinical coordinator at least one week in advance. It is the students' responsibility to ensure that any changes to the schedule are communicated with the faculty clinical coordinator in writing. Students are required to do a total of 24 clinical days that could be distributed over a maximum of two rotations. Students are allowed to do a maximum of three clinical days per week starting from the third semester week.**

#### *Clinical reports:*

During Each day of their clinical experience students are expected to prepare full clinical report concerning that day. The report should include (see attached sample sheet):

- 1- Name of student and date
- 2- Name and address of clinical area.
- 3- All learning activities for the day
- 4- A report on the case that has been assigned to the student in the unit (how received, what has been done and the plan of care that should be followed up in the next shift or day).
- 5- Signature of the student and the nurse in-charge at the unit or preceptor if present.
- 6- Submitted to the clinical coordinator (from the faculty) at the beginning of each week (Sunday or Monday).

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\* Subject to modifications

### *Oral clinical exam*

There will be an oral clinical exam for each student that accounts for 10% of the total mark. The exam will be conducted in the student's unit at the patient's bedside. The aim of the exam is to evaluate student's skill performance, competence, and learning progress. The competency checklist will be used to assess your progress.

The exam date and time will not be announced; however it should be expected anytime after the 8<sup>th</sup> semester week (starting on Sunday November 15<sup>th</sup>, 2008) in any of your scheduled duty shifts. Thus, it is for your best interest to keep us updated with any changes to your duty schedule!

### **Attendance**

Attendance of both theory and clinical part of the courses is mandatory. The university's regulations regarding students' attendance should be strictly followed and it is the student's responsibility to inform the clinical setting, course coordinator and clinical preceptor of any absence or delay. **In all cases the unit head nurse and clinical coordinator should be informed of any planned or unplanned absences or delay.**

### **Text book and recommended readings**

- 📖 **Urden L, Stacy K, and Lough M (2006) Thelan's Critical care nursing: diagnosis and management (5th Ed.). St. Louis, Mosby.**
- 📖 American Heart Association (2006) Handbook of emergency cardiovascular care for health care providers. AHA, Dallas
- 📖 American Heart Association (2006) ACLS provider manual. AHA, Dallas
- 📖 Morton P, Hudak C and Gallo B (2005) Critical care nursing: a holistic approach (8<sup>th</sup> ed.). Philadelphia, JB Lippincott.
- 📖 Stillwell S (2002) Critical care nursing reference. St. Louis, Mosby.

However students are expected to refer to the most recent texts and Journals in the area of critical care, and to specialized web sites on the Internet. Moreover, almost all critical care and related Journals have their own cites on the Internet. Some of these Journals will require payment to view full text articles however most of them will give access to the abstract. Also there are many web-based databases that allow free access to literature search and literature citations. Among those databases and the most commonly used by nurses are the CINAHL and the Medline or PubMed. The University of Jordan is currently subscribing to electronic access of a list of journals that can be accessed through the university's network on <http://e-library> (CINAHL with full text can be accessed through this site).

### Topic Schedule

	<b>Week</b>	<b>Topic</b>	<b>Coordinator</b>	<b>Requirement</b>
1	Sept 28 - 30	Introduction to course	Waddah Demeh, Mohammad Darawad & Ahmed Aqel	Attendance
2	Oct 5 - 7	Care management in critical setting, and the role of protocols, clinical pathways and algorithms	Waddah Demeh	One original article (no later than 5 years)
3	Oct 12 - 14	Legal & ethical issues in critical care –advanced discussion	Waddah Demeh	Discuss Islamic/Arabic perspectives regarding these issues. bring One original article (no later than 5 years)
4	Oct 19 - 21	End of life issues, and organ donation & transplantation	Waddah Demeh	Get one life example from your own setting for discussion. One original article (no later than 5 years)
5	Oct 26 - 28	ACLS Review	Mohammad Darawad & Ahmed Aqel	
6	Nov 2 - 4	ACLS oral exam	Mohammad Darawad & Ahmed Aqel	
7	Nov 9 - 11	Renal alterations		One original article (no later than 5 years)
8	Nov 16 - 18	Gastrointestinal system		One original article (no later than 5 years)
10	Nov 23 -25	Endocrine system		One original article (no later than 5 years)
11	Nov 30- Dec 2 <sup>nd</sup>	Shock		One original article (no later than 5 years)
12	Dec 7 - 9	Systemic inflammatory response syndrome and multiple organ dysfunction syndrome		One original article (no later than 5 years)
14	Dec 14-16	Hematologic disorders & oncologic emergencies		One original article (no later than 5 years)
15	Dec 21-23	Infection Control in critical settings		One original article (no later than 5 years)
16	Dec 28- 30	Review		
	<b>As scheduled</b>	<b>Final Exam</b>		

***Clinical Nursing Master Program  
Critical Care Nursing II  
Clinical Objectives***

Student's name: .....

Day & date of clinical day: .....

Name of Clinical Area: .....

**Objectives for the week:**

**Learning activities for the clinical day (planned or un planned)**

**Evaluation of outcome & the whole clinical day, including reflecting remarks and/or comments, and recommendations:**

Student's signature: .....

Date submitted: .....

*Only this form is accepted, so make sure you make enough copies of it!*

University of Jordan  
Faculty of Nursing  
Clinical Master Program  
Critical care nursing (2) course

**Steps to Evidence Based Critical Care Nursing Practice**

1. Accept the fact that health care is evolving, with the consequent need to base nursing care on evidence, rather than on tradition or previous education.
2. In conjunction with the clinical coordinator, choose a topic worthy of special study that will focus in-depth on one particular aspect of nursing within the critical care setting.
3. Identify a need for change in practice within this topic, by examining less-than-favorable patient outcomes; causes of patient, family/significant other, or staff dissatisfaction; or situations in which compelling new evidence exists in an aspect of care. There should be a clear focus on the topic selected for the assignment.
4. Frame a clinical question and search the literature for evidence regarding the topic.
5. Once current research data and evidence have been collected, evaluate the evidence for scientific merit, quality, and applicability. Inherent in this process is the need to determine if findings have been replicated and that they are relevant (applicable) to the clinical question addressed, and whether the data identified constitute the best evidence.
6. Synthesize to determine the strength of the evidence to support a change in practice.
7. Conduct a comparison between current practice recommendations and current research.
8. If there is sufficient evidence to suggest a change in practice and the change in practice is practical in respect to costs, staff skill, and resources required, application of the evidence into practice can occur. Implicit in the implementation of evidence are the issues associated with change, including fear of change and the need for information, staff training, leadership, and ongoing evaluation of the change.
9. Continue to evaluate the evidence through an ongoing and systematic review to promote state-of-the-science nursing care.

This process has to be reported in writing according to the guidelines in the next page.

The final students' papers will be published in a special booklet and distributed to all clinical areas.

Note: Each paper could be shared by a maximum of two students. Plagiarism is a serious offense and will result in dismissal from the course.

## **WRITTEN PAPER GUIDELINES**

The above mentioned process should be summarized and submitted in writing following APA style guidelines. All pages should be numbered and stabled together (no need to use a binder). Length of the paper should be limited to a **maximum of 2000 words (8 - 10 pages maximum including references) excluding appendix.**

The following are general guidelines to what would be included in the written assignment:

<b>Title Page:</b>	APA Title page guidelines.
<b>Introduction:</b>	Introduce the paper, stating the aim and focus of the paper. Give a rationale for choosing the topic and its relevance to practice. This could be, but not limited to, a need expressed by unite staff or an observable practice.
<b>Literature Review</b>	Critical review of the relevant literature, some of which should be research based. Discussions and arguments should be coherent, structured and conclusive. There should be evidence of appropriate and up-to-date readings to support the discussion/arguments in breadth and depth. Critical discussion of the literature, using comparison for and against, showing analysis and knowledge of the chosen topic and recommendations to improve practice based on the literature.
<b>Conclusion and/or recommendations</b>	Remind the reader of what you have attempted to do and give the answers to any of the questions raised in the introduction. State your main outcomes and state their implication for nursing practice. Suggest method for the sustainability and continuous evaluation of new practice. Propose research issues base on the review you made by identifying areas that need more investigation if any.
<b>References:</b>	List the names and sources of all material used in the work and cited in the text using the American Psychological Association format 5 <sup>th</sup> edition (APA style: <a href="http://www.apastyle.org">http://www.apastyle.org</a> ). All literature used within the assignment should be supported from the published source and referenced correctly.
<b>Appendices:</b>	<b><u>Implementation:</u></b> Describe briefly the way you approached the topic in the clinical settings and how you implement the change. There should be evidence of an analytical and problem solving approach to the assignment and outlining of the steps taken to introduce the change or new practice including any obstacles. There should be an awareness of the wider issues and implications of the topic of the assignment. Include in this section any information you think has relevance to the paper.
<b>Submission Date</b>	<b><u>Paper is due on Tuesday December, 1<sup>st</sup> 2008. For each day of delay there will be a penalty of losing one mark per day. A hard (printed) and electronic copies are required.</u></b>