The University of Jordan

Research for Medical Students

**2nd semester 2016/2017**

**Professor: Muayyad Ahmad**

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[**https://scholar.google.com/citations?user=c5g\_KZIAAAAJ&hl=en**](https://scholar.google.com/citations?user=c5g_KZIAAAAJ&hl=en)

Topics’ Outline and Schedule

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| --- | --- | --- |
| **Topic** | **Achieved ILOs** | **Chapter** |
| Introduction to Research | Understand course requirements, Significance of research, Articulate research process | 2, 3 |
| Research Problems, Research Questions, and Hypotheses | Understand the purpose statement,  Recognize sources for research problems,  Recognize a researchable problem,  Begin to develop a research problem | 4 |
| Literature Review | Understand the importance of the literature review  Identify appropriate sources for a literature review | 5 |
| APA writing style, and writing for research, plagiarism | American Psychological Association- Reference list |  |
| Research Designs | Understand how to develop a hypothesis, question or objective; Identify components of a working hypothesis | 9 |
| Rigor and Validity in Quantitative Research | Differentiate between experimental and non-experimental research,  Differentiate between quantitative and qualitative research, Identify research designs | 10 |
| Samples | Differentiate between population, target population, and sample,  Identify sample limitations,  Identify sample selection methods | 12 |
|  |  |  |
| Data Collection in Quantitative research |  | 13 |
| Measurement and data quality |  | 14 |
|  |  | 20 |
| Ethics in Health Research |  | 7 |
|  |  |  |
| Statistics and data analysis  [4 classes] |  | 16, 17, 18,19 |
| Writing proposal |  | 29 |

1. Required book:

Polit, D.F., & Beck, C.T. (2011). *Nursing research: Generating and assessing evidence for nursing practice* (9th ed.). Philadelphia, PA: Lippincott Williams & Wilkins.

1. Recommended books, materials, and media:

* American Psychological Association. (2010). *Publication manual of the American*

*Psychological Association* (6th ed.). Washington, DC: Author.

* <http://e-lilbrary.ju.edu.jo>