

Course Syllabus

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MW305

Course Title: Antepartum Pharmacology

Credits: 1.0

Course Description:

This course covers both allopathic and non-allopathic medications/drugs, including an in-depth introduction to the theory and practice of both herbalism and homeopathy. It introduces the student to the structure and function of receptor sites and requires a thorough understanding of dosage, absorption, metabolism, drug interactions, side effects, and allergies, as well as the importance of carefully considering the client's individual factors when deciding to administer medications.

This course uses current research in midwifery and obstetrics to broaden the student's understanding of the NARM skills and MEAC essential competencies learned under clinical supervision.

Learning Objectives

Learning objectives are identified through the linking of MEAC Essential Competencies and the NCM Degree Qualification Profile.

Learning Activities

Antepartum Courses

Read, listen to, watch assigned lesson materials.

Submit a written summary of current research.

Complete oral and/or written formative didactic assessments with final summative submission.

Identify and cite high-quality sources.

Use articulated reasoning while participating in an oral presentation, facilitated discussions and skills demonstrations.

Submit a portfolio.

Analyze a case study.

Optional: Participate in a skills demonstration and/or

role-playing activity.

Optional: Develop a study aid.

Complete a final exam.

Note: The clinical requirement of NARM /Clinical Skills is completed at any time throughout the ASM apprenticeship during actual clinical practice and is NOT a requirement to complete this academic course. Typical clinical manifestations of knowledge learned in this course are identified in the learning objective document above.

Learning Materials / Resources:

Please use textbooks less than 5 years old or most recent edition.

1. **Hale, T.W. and Rowe, H.E. Medications and Mother's Milk. 17th edition. Hale Publishing. 2017.**
(<http://www.worldcat.org/title/medications-and-mothers-milk-a-manual-of-lactational-pharmacology/oclc/771464213/editions?editionsView=true&referer=br>)
2. **Manning, L. and Rayfield, S. Pharmacology Made Insanely Easy. 4th edition. ICAN Publishing, Inc. 2013.**
(http://www.worldcat.org/title/pharmacology-made-insanely-easy/oclc/843947234&referer=brief_results)
3. **Perko, Sandra. The Modern Pregnant Woman and Her Infant - A Therapeutic Practice Guidebook for Midwives, Physicians, and Practitioners. Benchmark Homeopathic Publications. 1997.**
(http://www.worldcat.org/title/homeopathy-for-the-modern-pregnant-woman-and-her-infant-a-therapeutic-practice-guidebook-for-midwives-physicians-and-practitioners/oclc/38067886&referer=brief_results)
4. **Grossberg, George T. and Fox, Barry. The Essential Herb-Drug-Vitamin Interaction Guide: The Safe Way to Use Medications and Supplements Together. 1 edition. Broadway. 2007.**
(<http://www.worldcat.org/title/essential-herb-drug-vitamin-interaction-guide-the-safe-way-to-use-medications-and-supplements-together/oclc/908635841/editions?editionsView=true&referer=br>)
5. **Skidmore-Roth, Linda. Mosby's Handbook of Herbs & Natural Supplements. 4 th Edition. Mosby. 2012.**
(<http://www.worldcat.org/title/mosbys-handbook-of-herbs-natural-supplements/oclc/813241582/editions?editionsView=true&referer=br>)
6. **Tatro, David S. Drug Interaction Facts. 1 edition. Lippincott Williams & Wilkins. 2009.**
(<http://www.worldcat.org/title/drug-interaction-facts/oclc/502308168/editions?editionsView=true&referer=br>)
7. **Davis, Elizabeth. Heart and Hands: A midwife's guide to pregnancy and birth. 5th Edition. Celestial Arts Press. 2013.**
(http://www.worldcat.org/title/heart-and-hands-fifth-edition-a-midwives-guide-to-pregnancy-and-birth/oclc/869404605&referer=brief_results)

The following books are older, but are still very useful:

8. Moscovitz, Richard. Homeopathic Medicines for Pregnancy and Childbirth. North Atlantic Books. 1993.
9. Hoffman, David. The Holistic Herbal: A Safe and Practical Guide to Making and Using Herbal Remedies. Thorsons. 2003
10. Weed, Susan. Wise woman herbal for the childbearing year. Ashtree publishing. 1987.

11. Tisserand, R., and Balacs, T. Essential Oil Safety: A Guide for Health Care Professionals. 1 edition. Churchill Livingstone. 1995.

12. Articles for latest developments in herbs and homeopathy may be found in The Herb Quarterly.

13. **MEAC Abbreviated NARM Skills Form**

(<http://www.midwiferycollege.org/AcademicProgram/Downloads/ASM/Clinical/Form-NARMSkills.pdf>)

(<http://www.midwiferycollege.org/AcademicProgram/Downloads/ASM/Clinical/Form-NARMSkills.pdf>)

14. **MEAC Core Competencies for Midwives** (<http://meacschools.org/wp-content/uploads/2014/12/Curriculum-Checklist-of-Essential-Competencies-rev-2014.pdf>)

15. **Midwives Model of Care®** (<http://cfmidwifery.org/mmoc/define.aspx>)

16. Recommended internet links as needed for latest developments in midwifery care:

- **The Cochrane Collaboration** (<http://www.cochrane.org/>)
- **EBSCO** (<http://ejournals.ebsco.com/login.asp?bCookiesEnabled=TRUE>)
- **National Library of Medicine** (<https://www.nlm.nih.gov/>)
- **PubMed** (<https://www.ncbi.nlm.nih.gov/pubmed/>)
- **ScienceDirect** (<http://www.sciencedirect.com/>)
- **Medscape** (<http://www.medscape.com/womenshealth>)
- **World Health Organization** (<http://www.who.int/en/>)

Evaluation Tools / Methods:

The minimum passing grade for all courses is a cumulative 80% / B-. Grades are not recorded until both the student and preceptor submit end of trimester evaluations and in the case of general education courses supervision is completed.

All assignments for this course are evaluated using the following criteria:

1. Responses to each didactic assessment are evaluated utilizing the NCM rubrics and degree level profile.
2. Answers should reflect a thorough review of the current literature regarding best current practices in midwifery care.
3. Non-plagiarized paraphrased answers from the text which demonstrate appropriate comprehension of the learning objective. (Formative Assessment) Students and preceptors are encouraged to work together until the student masters the information. (Summative Assessment)
4. Random evaluation of cited sources and page numbers for each written assignment.

Course credit: One Academic credit equals approximately 15 hours of formal time plus 30 hours of additional study or homework. Formal time is defined as the amount of time taken to answer the Learning Objectives to the level of 80% for midwifery courses and 70% for general education courses and to complete any learning

activities to the preceptor's satisfaction, including any time spent face to face with the preceptor. Informal time includes any time spent actively reading relevant sources and textbook/s, researching Learning Objectives, and studying for examinations.

Course Summary:

Date	Details	
Tue Jul 25, 2017	 Office Hours (https://ncm.instructure.com/calendar?event_id=121&include_contexts=course_143)	8am to 9am
	 A Note on Community Building Activities https://ncm.instructure.com/courses/143/assignments/6750	
	 Case study and Role Play https://ncm.instructure.com/courses/143/assignments/11301	
	 Exams and Quizzes (https://ncm.instructure.com/courses/143/assignments/6751)	
	 Highly Recommended Optional Enrichment Activities https://ncm.instructure.com/courses/143/assignments/13602	
	 Homeopathy (https://ncm.instructure.com/courses/143/assignments/11298)	
	 How the body processes medicine https://ncm.instructure.com/courses/143/assignments/11300	
	 Injection Practice (https://ncm.instructure.com/courses/143/assignments/11287)	
	 Injection Site (https://ncm.instructure.com/courses/143/assignments/11288)	
	 Journal Article Summary https://ncm.instructure.com/courses/143/assignments/6752	
	 MW305-001 - Define drug. https://ncm.instructure.com/courses/143/assignments/6682	
	 MW305-002 - Define vaccine. https://ncm.instructure.com/courses/143/assignments/6683	
	 MW305-003 - Explain why receptor sites are a central concept of pharmacology and toxicology. Give an example of a receptor type and describe how it works. https://ncm.instructure.com/courses/143/assignments/6684	
	 MW305-004 - Discuss what "pharmacology" describes. https://ncm.instructure.com/courses/143/assignments/6685	
	 MW305-005 - Discuss what "pharmacokinetics" describes. https://ncm.instructure.com/courses/143/assignments/6686	
	 MW305-006 - Define an agonist drug. https://ncm.instructure.com/courses/143/assignments/6687	
	 MW305-007 - Define an antagonist drug and how it works.	

Date	Details
	<p>https://ncm.instructure.com/courses/143/assignments/6688</p>
	<p> MW305-008 - Explain a dose response curve. https://ncm.instructure.com/courses/143/assignments/6689</p>
	<p> MW305-009 - Discuss the difference between competitive and noncompetitive inhibition at receptor sites. https://ncm.instructure.com/courses/143/assignments/6690</p>
	<p> MW305-010 - List five questions to ask and answer when considering a specific drug for therapy. https://ncm.instructure.com/courses/143/assignments/6691</p>
	<p> MW305-011 - Describe how absorption affects the route and dosage in the administration of a drug. https://ncm.instructure.com/courses/143/assignments/6692</p>
	<p> MW305-012 - Explain the importance of the way a drug is metabolized. https://ncm.instructure.com/courses/143/assignments/6693</p>
	<p> MW305-013 - Explain how drug elimination of the fraction affects dosage. https://ncm.instructure.com/courses/143/assignments/6694</p>
	<p> MW305-014 - Describe how a therapeutic range is determined. https://ncm.instructure.com/courses/143/assignments/6695</p>
	<p> MW305-015 - Explain how you will monitor drug action. https://ncm.instructure.com/courses/143/assignments/6696</p>
	<p> MW305-016 - Explain how the kidneys clear a drug. https://ncm.instructure.com/courses/143/assignments/6697</p>
	<p> MW305-017 - Explain how drug metabolism in the liver takes place. https://ncm.instructure.com/courses/143/assignments/6698</p>
	<p> MW305-018 - Discuss drug classes. Which classes of drugs are considered safe in pregnancy and which are not. https://ncm.instructure.com/courses/143/assignments/6699</p>
	<p> MW305-019 - Explain why it is important to realize there is much that is not known about the mechanisms of drug action. https://ncm.instructure.com/courses/143/assignments/6700</p>
	<p> MW305-020 - Discuss why you need to take into consideration your patient's special needs and physiology when deciding on and administering a drug. https://ncm.instructure.com/courses/143/assignments/6701</p>
	<p> MW305-021 - Define side effect. https://ncm.instructure.com/courses/143/assignments/6702</p>
	<p> MW305-022 - Define overdose. https://ncm.instructure.com/courses/143/assignments/6703</p>
	<p> MW305-023 - Define drug allergy. https://ncm.instructure.com/courses/143/assignments/6704</p>
	<p> MW305-024 - Discuss what is specified in a prescription.</p>

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	<p>https://ncm.instructure.com/courses/143/assignments/6705</p>
	<p> MW305-025 - Explain the importance of being able to explain to a client the possible side effects of any drug that you might suggest during pregnancy. https://ncm.instructure.com/courses/143/assignments/6706</p>
	<p> MW305-026 - Discuss the reason that Rho (D) Immunoglobulin (Rhogam) is offered to Rh women during the prenatal period. https://ncm.instructure.com/courses/143/assignments/6707</p>
	<p> MW305-027 - Discuss the schedule on which Rhogam is offered during and after pregnancy and any event or procedures that would also require the administration of Rhogam. https://ncm.instructure.com/courses/143/assignments/6708</p>
	<p> MW305-028 - Discuss the details of Rhogam administration. Include the dose, route, contraindications, possible side effects, and lab tests that should be done before administration. https://ncm.instructure.com/courses/143/assignments/6709</p>
	<p> MW305-029 - Define Allopathy. https://ncm.instructure.com/courses/143/assignments/6710</p>
	<p> MW305-030 - Discuss the advantages of using non-allopathic treatments during pregnancy to deal with common complaints. https://ncm.instructure.com/courses/143/assignments/6711</p>
	<p> MW305-031 - Discuss how non-allopathic treatments may be used to design an “individualized plan” for a client. https://ncm.instructure.com/courses/143/assignments/6712</p>
	<p> MW305-032 - Discuss the importance of maintaining shared responsibility between client and midwife when embarking on non-allopathic treatments. https://ncm.instructure.com/courses/143/assignments/6713</p>
	<p> MW305-033 - Discuss the limitations on recommending treatments for midwives that do not hold an education/license in a non-allopathic specialty. https://ncm.instructure.com/courses/143/assignments/6714</p>
	<p> MW305-034 - Discuss the strategy of treating complaints with the “least to most” intervention. How do non-allopathic remedies and treatments fit into this? Why do many midwives turn to these treatments first for non-emergent situations? https://ncm.instructure.com/courses/143/assignments/6715</p>
	<p> MW305-035 - Discuss the origins of three different schools of thought regarding herbalism. https://ncm.instructure.com/courses/143/assignments/6716</p>
	<p> MW305-036 - Discuss what is meant by action of an herb. https://ncm.instructure.com/courses/143/assignments/6717</p>
	<p> MW305-037 - Discuss differences between the action of herbs and pharmaceutical drugs. https://ncm.instructure.com/courses/143/assignments/6718</p>
	<p> MW305-038 - Define “Common Name”, “Latin Name”, “Genera”, and “Species”. Discuss how the knowledge of these terms helps in the</p>

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	<p><u>understanding of plant medicine.</u> (https://ncm.instructure.com/courses/143/assignments/6719)</p>
	<p> <u>MW305-039 - Define the terms “wild crafted” and “organically cultivated”.</u> <u>Discuss how these characteristics affect the quality of an herbal supplement.</u> (https://ncm.instructure.com/courses/143/assignments/6720)</p>
	<p> <u>MW305-040 - Define the following herbal preparations and how they might be used:</u> (https://ncm.instructure.com/courses/143/assignments/6721)</p>
	<p> <u>MW305-041 - Define and give an example of each of the following:</u> (https://ncm.instructure.com/courses/143/assignments/6722)</p>
	<p> <u>MW305-042 - List the categories of herbs that are safe in pregnancy and describe why each is safe.</u> (https://ncm.instructure.com/courses/143/assignments/6723)</p>
	<p> <u>MW305-043 - List the categories of herbs that are unsafe in pregnancy and describe why each is unsafe.</u> (https://ncm.instructure.com/courses/143/assignments/6724)</p>
	<p> <u>MW305-044 - Define the following constituents and give an example of an herb that contains it. Discuss whether is harmful or helpful to a pregnant woman and fetus:</u> (https://ncm.instructure.com/courses/143/assignments/6725)</p>
	<p> <u>MW305-045 - Discuss how age, weight, metabolism, pregnancy and overall health affect dosage with herbs.</u> (https://ncm.instructure.com/courses/143/assignments/6726)</p>
	<p> <u>MW305-046 - Discuss how the principle of “above all, do no harm” is applied to utilization of herbs in pregnancy.</u> (https://ncm.instructure.com/courses/143/assignments/6727)</p>
	<p> <u>MW305-047 - Discuss the common assumption that because herbs are natural they are harmless. Give 5 examples of how herbs that are considered safe can be harmful Retrieving data. Wait a few seconds and try to cut or copy again.</u> (https://ncm.instructure.com/courses/143/assignments/6728)</p>
	<p> <u>MW305-048 - Describe the use of the following herbs in pregnancy. Include the action, form, dosage, contraindications, and possible side effects of each:</u> (https://ncm.instructure.com/courses/143/assignments/6729)</p>
	<p> <u>MW305-049 - Define homeopathy.</u> (https://ncm.instructure.com/courses/143/assignments/6730)</p>
	<p> <u>MW305-050 - Define the “Law of Similars”.</u> (https://ncm.instructure.com/courses/143/assignments/6731)</p>
	<p> <u>MW305-051 - Describe what is meant by disease in homeopathic theory.</u> (https://ncm.instructure.com/courses/143/assignments/6732)</p>
	<p> <u>MW305-052 - Describe how healing takes place according to homeopathic theory.</u> (https://ncm.instructure.com/courses/143/assignments/6733)</p>
	<p> <u>MW305-053 - Explain how, according to homeopathic theory, allopathic medications lead to suppression.</u> (https://ncm.instructure.com/courses/143/assignments/6734)</p>

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Details **MW305-054 - Describe a proving and give two examples of how a proving can occur.** (<https://ncm.instructure.com/courses/143/assignments/6735>)

 **MW305-055 - Describe an aggravation and give an example.** (<https://ncm.instructure.com/courses/143/assignments/6736>)

 **MW305-056 - Describe how a homeopathic remedy might be antidoted.** (<https://ncm.instructure.com/courses/143/assignments/6737>)

 **MW305-057 - Describe what is meant by acute health and chronic health conditions in homeopathy.** (<https://ncm.instructure.com/courses/143/assignments/6738>)

 **MW305-058 - Describe acute homeopathic prescribing.** (<https://ncm.instructure.com/courses/143/assignments/6739>)

 **MW305-059 - Describe constitutional homeopathic prescribing.** (<https://ncm.instructure.com/courses/143/assignments/6740>)

 **MW305-060 - Describe how a homeopathic remedy is made from a substance.** (<https://ncm.instructure.com/courses/143/assignments/6741>)

 **MW305-061 - Describe what is meant by the following potencies and how they might be used:** (<https://ncm.instructure.com/courses/143/assignments/6742>)

 **MW305-062 - What is meant by a homeopathic materia medica?** (<https://ncm.instructure.com/courses/143/assignments/6743>)

 **MW305-063 - Describe how homeopathic remedies are administered.** (<https://ncm.instructure.com/courses/143/assignments/6744>)

 **MW305-064 - Describe how to determine when a remedy should be discontinued.** (<https://ncm.instructure.com/courses/143/assignments/6745>)

 **MW305-065 - Describe how you evaluate whether a remedy you administered in an acute condition is effective.** (<https://ncm.instructure.com/courses/143/assignments/6746>)

 **MW305-066 - Describe why it may not be effective and might even be harmful to give every mom and every baby a routine remedy (such as arnica) following every birth.** (<https://ncm.instructure.com/courses/143/assignments/6747>)

 **Newborn Vitamin K Handout** (<https://ncm.instructure.com/courses/143/assignments/11297>)

 **Optional: Create a Set of Flashcards to Study for the NARM Exam** (<https://ncm.instructure.com/courses/143/assignments/15197>)

 **Renal Absorption and Excretion** (<https://ncm.instructure.com/courses/143/assignments/11299>)

 **Student Evaluation of Course and Instructor** (<https://ncm.instructure.com/courses/143/assignments/6749>)

 **Updated Knowledge and Technology** (<https://ncm.instructure.com/courses/143/assignments/6759>)

 **Ventrogluteal Injection** (<https://ncm.instructure.com/courses/143/assignments/11295>)

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 **Vit K Injection** (<https://ncm.instructure.com/courses/143/assignments/11296>)
