

# Course Syllabus

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**Course Code:** MW 326

**Course Title:** Intrapartum Diagnostic Lab Tests & Procedures

**Credits:** 0.5

**Course Description:** This course reviews diagnostic tools that are used during intrapartum care. Students learn tools to confirm the rupture of membranes, evaluate urine for health indicators and other common tests. This course reviews the indications and efficacy of electronic fetal monitoring, ultrasound, and uses of x-ray in labor.

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**

Intrapartum Courses

Read, listen to, watch assigned lesson materials.

Submit a written summary of current research.

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

Identify and cite high-quality sources.

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

Optional: Participate in a skills demonstration and/or role playing activity.

Analyze a case study.

Create an infographic, handout, and/or community resource.

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:**

1. Frye, Anne. Understanding diagnostic tests in the childbearing year: A wholistic approach. Seventh edition. Labrys Press. 2007. (<https://www.amazon.com/Understanding-Diagnostic-Tests-Childbearing-Year/dp/1891145568>)
2. (<https://www.amazon.com/Understanding-Diagnostic-Tests-Childbearing-Year/dp/1891145568>) Marshall, Jayne E. et al. *Myles Textbook for Midwifery*. 17th ed., Elsevier, 2020. ([https://www.worldcat.org/title/myles-textbook-for-midwives/oclc/308240960/editions?referer=di&sd=desc&se=yr&qt=facet\\_yr%3A&editionsView=true&fq=yr%3A2020](https://www.worldcat.org/title/myles-textbook-for-midwives/oclc/308240960/editions?referer=di&sd=desc&se=yr&qt=facet_yr%3A&editionsView=true&fq=yr%3A2020))
3. ([https://www.worldcat.org/title/myles-textbook-for-midwives/oclc/308240960/editions?referer=di&sd=desc&se=yr&qt=facet\\_yr%3A&editionsView=true&fq=yr%3A2020](https://www.worldcat.org/title/myles-textbook-for-midwives/oclc/308240960/editions?referer=di&sd=desc&se=yr&qt=facet_yr%3A&editionsView=true&fq=yr%3A2020)) Chapman, Vicky and Charles, Cathy. *The midwife's labour and birth handbook*. 3rd edition, (<https://www.worldcat.org/title/midwives-labour-and-birth-handbook/oclc/1035502361/editions?editionsView=true&referer=br>) Blackwell Publishing, 2018. (<https://www.worldcat.org/title/midwives-labour-and-birth-handbook/oclc/1035502361/editions?editionsView=true&referer=br>)
4. (<https://www.worldcat.org/title/midwives-labour-and-birth-handbook/oclc/1035502361/editions?editionsView=true&referer=br>) Johnson, Ruth and Taylor, Wendy. *Skills for Midwifery Practice*. 4th edition. Elsevier ([https://www.worldcat.org/title/skills-for-midwifery-practice/oclc/1062286885/editions?sd=desc&referer=di&se=yr&qt=facet\\_yr%3A&editionsView=true&fq=yr%3A2016](https://www.worldcat.org/title/skills-for-midwifery-practice/oclc/1062286885/editions?sd=desc&referer=di&se=yr&qt=facet_yr%3A&editionsView=true&fq=yr%3A2016)) Churchill Livingstone. 2016. ([https://www.worldcat.org/title/skills-for-midwifery-practice/oclc/1062286885/editions?sd=desc&referer=di&se=yr&qt=facet\\_yr%3A&editionsView=true&fq=yr%3A2016](https://www.worldcat.org/title/skills-for-midwifery-practice/oclc/1062286885/editions?sd=desc&referer=di&se=yr&qt=facet_yr%3A&editionsView=true&fq=yr%3A2016))
5. ([https://www.worldcat.org/title/skills-for-midwifery-practice/oclc/1062286885/editions?sd=desc&referer=di&se=yr&qt=facet\\_yr%3A&editionsView=true&fq=yr%3A2016](https://www.worldcat.org/title/skills-for-midwifery-practice/oclc/1062286885/editions?sd=desc&referer=di&se=yr&qt=facet_yr%3A&editionsView=true&fq=yr%3A2016)) Weaver, Pam and Evans, Sharon K. *Practical Skills Guide for Midwifery*, 5th Edition, (<https://www.worldcat.org/title/practical-skills-guide-for-midwifery-a-tool-for-midwives-students/oclc/35112025/editions?editionsView=true&referer=br>) Morningstar Publishing Co. Wasilla, 2012. (<https://www.worldcat.org/title/practical-skills-guide-for-midwifery-a-tool-for-midwives-students/oclc/35112025/editions?editionsView=true&referer=br>)

6. [\\_ \(https://www.worldcat.org/title/practical-skills-guide-for-midwifery-a-tool-for-midwives-students/oclc/35112025/editions?editionsView=true&referer=br\)](https://www.worldcat.org/title/practical-skills-guide-for-midwifery-a-tool-for-midwives-students/oclc/35112025/editions?editionsView=true&referer=br) King, Tekoa L. et al. *Varney's Midwifery*. 6th ed., Jones & Bartlett Learning, 2018. (https://www.worldcat.org/title/varneys-midwifery/oclc/1050928190?referer=di&ht=edition)
7. [MEAC Abbreviated NARM Skills Form](#)
8. (https://www.worldcat.org/title/varneys-midwifery/oclc/1050928190?referer=di&ht=edition). (http://MEAC%20Abbreviated%20NARM%20Skills%20Form) [MEAC Core Competencies for Midwives](#) (http://meacschools.org/wp-content/uploads/2014/12/Curriculum-Checklist-of-Essential-Competencies-rev-2014.pdf)
9. [Midwives Model of Care®](#) (https://www.citizensformidwifery.org/mmoc)
10. Help Evaluating Articles (visit the digital library)
11. Citation Guidance (visit the digital library)
12. Places to Find Research Articles (visit the digital library)

### **Evaluation Tools / Methods:**

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 text which demonstrate appropriate comprehension of the learning objective. (Formative Assessment) *Students and Online Learning Coordinators work together until the student masters the information. (Summative Assessment)*
4. Group sharing within NCM is acceptable and encouraged. Students are allowed to use each other's answers by indicated "Group Share" and submission of the answer on all group identified assignments.
5. NCM's [Integrity Code](#) (https://docs.google.com/document/d/14PvgiDU4MJEKRZZiUQRFhNBeDL\_KFqZzATPkDvuQYzA/edit?usp=sharing) is the basis for a "completed" score earned on all assignments which are allowed to be completed in community with the student's active preceptor(s).
6. 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**


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 **Fetal Lung Development**  
(<https://ncm.instructure.com/courses/659/assignments/26624>)

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 **GBS App**  
(<https://ncm.instructure.com/courses/659/assignments/26625>)

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 **Highly Recommended Optional Enrichment Activities**  
(<https://ncm.instructure.com/courses/659/assignments/26626>)


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 **Intermittent Fetal Monitoring**  
(<https://ncm.instructure.com/courses/659/assignments/26627>)


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 **Intrapartum Diagnostic Lab Tests and Procedures Multiple Attempts**  
(<https://ncm.instructure.com/courses/659/assignments/26708>)


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 **Journal Article Summary**  
(<https://ncm.instructure.com/courses/659/assignments/26628>)


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 **MW326-001 - Describe the method for observing pooling amniotic fluid in the posterior vaginal fornix.**  
(<https://ncm.instructure.com/courses/659/assignments/26629>)


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 **MW326-002 - Describe the use of nitrazine paper when placed in alkaline amniotic fluid.**  
(<https://ncm.instructure.com/courses/659/assignments/26630>)

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 **MW326-003 - Describe the significance of a ferning pattern when observed in amniotic fluid placed on a glass slide.**  
(<https://ncm.instructure.com/courses/659/assignments/26631>)


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 **MW326-004 - Describe the other fluid that can cause false-positive results when trying to prove ROM.**  
(<https://ncm.instructure.com/courses/659/assignments/26632>)


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 **MW326-005 - Discuss the difference between continuous and intermittent fetal heart rate monitoring techniques during labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26633>)


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 **MW326-006 - Cite evidence of the ability of continuous and intermittent monitoring to identify fetal distress.**  
(<https://ncm.instructure.com/courses/659/assignments/26634>)


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 **MW326-007 - Describe the evidence for the effectiveness of the two methods of evaluating fetal heart rate in reducing fetal mortality and morbidity.**  
(<https://ncm.instructure.com/courses/659/assignments/26635>)


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 **MW326-008 - Describe 2 ways in which ultrasound can be used during labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26636>)


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 **MW326-009 - Describe how urine analysis can be used to differentiate between a UTI and early labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26637>)


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 **MW326-010 - Describe the how maternal hydration can be assessed and its significance during labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26638>)

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 **MW326-011 - Describe how testing for ketones is carried out and its significance in labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26639>)


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 **MW326-012 - Discuss how testing for glucose is performed and its significance during labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26640>)


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**Date****Details**


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 **MW326-013 - Discuss how testing for protein is performed during labor and why these results are often inaccurate as labor advances and after membranes have ruptured.**  
(<https://ncm.instructure.com/courses/659/assignments/26641>)


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 **MW326-014 - Discuss what diagnostic tests are routine before the administration of epidural analgesia.**  
(<https://ncm.instructure.com/courses/659/assignments/26642>)


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 **MW326-015 - Describe the use of X-ray in labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26643>)


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 **MW326-016 - Discuss the use of a contraction monitor during labor. What information can be gathered by monitoring the strength of contractions?**  
(<https://ncm.instructure.com/courses/659/assignments/26644>)


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 **MW326-017 - Discuss a low-intervention method of assessing contraction strength often used by midwives at home?**  
(<https://ncm.instructure.com/courses/659/assignments/26645>)


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 **MW326-018 - List 2 biochemical markers that may indicate an increased risk for preterm labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26646>)

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 **MW326-019 - Discuss the diagnostic tests that can be used to test for the above mentioned biochemical markers and how they are performed.**  
(<https://ncm.instructure.com/courses/659/assignments/26647>)


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 **MW326-020 - Discuss when it is appropriate to measure cervical length by ultrasound and how this procedure is performed.**  
(<https://ncm.instructure.com/courses/659/assignments/26648>)


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 **MW326-021 - Discuss the diagnostic tests that are available for assessing fetal lung maturity and how they are performed.**  
(<https://ncm.instructure.com/courses/659/assignments/26649>)


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 **MW326-022 - When is it appropriate to consider fetal lung maturity as a factor in decision making during labor?**  
(<https://ncm.instructure.com/courses/659/assignments/26650>)


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 **MW326-023 - Name the lab tests that should be obtained for women about to be placed on tocolysis.**  
(<https://ncm.instructure.com/courses/659/assignments/26651>)


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 **MW326-024 - Discuss the practice of fetal scalp blood sampling. What is the rationale behind this type of testing and why has it decreased in popularity?**  
(<https://ncm.instructure.com/courses/659/assignments/26652>)


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 **MW326-025 - Explain the visual diagnostic that can be performed by examining the amniotic fluid released after the rupture of membranes during labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26653>)


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 **MW326-026 - How can the information gathered with the above visual diagnostic tool inform the midwife about fetal well-being?**  
(<https://ncm.instructure.com/courses/659/assignments/26654>)

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 **MW326-027 - Discuss the way in which pulse oximetry can be used during labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26655>)


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 **MW326-028 - Why is assessing blood oxygen saturation levels useful in labor?**  
(<https://ncm.instructure.com/courses/659/assignments/26656>)


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 **MW326-029 - Discuss the diagnostic tests that can be used to identify maternal infection during labor.**  
(<https://ncm.instructure.com/courses/659/assignments/26657>)


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 **MW326-030 - What test can be done to assess electrolyte balance in labor and when would it be appropriate to perform this test?**  
(<https://ncm.instructure.com/courses/659/assignments/26658>)


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 **Optional: Create a Set of Flashcards to Study for the NARM Exam**  
(<https://ncm.instructure.com/courses/659/assignments/26659>)

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 **Premature Rupture of Membranes including Ferning**  
(<https://ncm.instructure.com/courses/659/assignments/26660>)

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 **Updated Knowledge and Technology**  
(<https://ncm.instructure.com/courses/659/assignments/26661>)

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 **UTI in Pregnancy**  
(<https://ncm.instructure.com/courses/659/assignments/26662>)

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