

Curriculum Design, Implementation, and Evaluation

Director: Melissa McNeil, MD, MPH

Course Goals

This course is designed to explore and develop the principles of curriculum design, implementation, and evaluation. Students will learn the six step method of curriculum development including: general needs assessment, individual learner assessment, development of goals and objectives, educational strategies for different objectives, needs and barriers to course implementation, evaluation, and feedback. Assessment of knowledge, skills, and attitudes will be included. A discussion of both formative and summative assessment will also be covered. At the end of the course students will have developed a curriculum in an area of their choosing.

Objectives of the Course:

1. Understand the 6 step method for curriculum design
2. Review methods for curricular needs assessment
3. Understand how to develop goals and objectives
4. Review the different educational strategies and the theory underlying their choice for a specific educational objective
5. Learn to identify the needs and barriers for successful curriculum implementation
6. Learn the principles of feedback including both formative and summative feedback
7. Understand how to implement a knowledge base assessment
8. Learn the components necessary for a successful curriculum revision proposal

Overview of Course:

Goals:

Topic

Students will be able to:

Session 1: Overview
Different types of curriculum

Discuss 6 step curriculum process
Understand curriculum models

Session 2: Needs Assessment

Demonstrate understanding of needs assessment by identifying a curricular need

Session 3: Goals and Objectives

Demonstrate ability to develop goals and objectives for curriculum development

Session 4: Educational Strategies

Demonstrate understanding of different educational strategies by developing appropriate strategies for previously developed goals and objectives

Session 5: Implementation: Needs and Barriers

Develop a plan to implement a new curricular innovation identifying both resources needed and anticipated barriers

Session 6: Feedback

Demonstrate an understanding of the difference between formative and summative evaluations

Session 7: Evaluation: Knowledge Based

Develop a plan/questions for assessing knowledge to be communicated in a curriculum

Session 8: Writing a proposal

Understand the components necessary for a successful curriculum development proposal

Requirements:

1. Attendance at all class sessions
2. Completion of assigned reading
3. Completion of homework assignments
4. Develop (through weekly assignments) a plan for a curriculum using the 6 step process
5. Present curriculum design, plan for implementation, and evaluation strategy to the group

Required Text: Curriculum Development for Medical Education: A Six Step Approach. DE Kern, PA Thomas, DM Howard, EB Bass. Johns Hopkins University Press.

Details of Class Sessions:**Session 1: Introduction/McNeil**

Overview of curriculum design including differentiation of subject centered, integrated, and competency based curriculums. Introduction of the 6 step plan for curriculum design.

Homework: Identify a curricular need; perform a general needs assessment.

Session 2: Needs Assessment/McNeil

Session will begin with presentation of student identified curricular need with critique of needs assessment. Following student presentations, strategies for assessing individual learner needs will be reviewed.

Homework: Develop a strategy for doing an individual needs assessment for your proposed curricular project.

Session 3: Goals and Objectives/McNeil

Session will begin with presentation of plans for individual needs assessment with group critique. Didactic will introduce concepts of goals and objectives, how to develop with special attention to including knowledge, skills, and attitudes.

Homework: Develop goals and objectives for curriculum project.

Session 4: Educational Strategies/McNeil

Session will begin with review of student generated goals and objectives will class critique. Didactic will include pros and cons of various educational strategies and how to chose a strategy for a given curricular need.

Homework: Develop appropriate educational strategies for your curricular project and justify.

Session 5: Implementation/McNeil

Session will begin with review of student generated educational strategies. Didactic will highlight how to plan to implement a curriculum innovation including identification of resources needs, strategies for marshalling support, and how to identify and overcome barrier.

Homework: Students will develop a plan for implementation of their curriculum project with attention to resources needed and barriers anticipated.

Session 6: Feedback/McNeil

Session will begin with review of implementation plans. Didactic will cover feedback including the importance of, strategies for, and differences between formative and summative feedback.

Homework: Students will develop a plan for feedback related to their curricular project.

Session 7: Evaluation: Sharon Maddox Knowledge Based Assessment: Written Tests

Didactic will cover strategies for writing valid and reliable test questions. No discussion of previous assessment.

Homework: Students will develop written test questions for their curriculum project.

Session 8: Curricular Proposals: Deb Seltzer and Doris Rubio

Session will begin with student presentation of written test questions . Course will conclude with discussion of writing a proposal for a curriculum development project.