Bovine Breeder artificial insemination simulator

Curriculum Overview

Designed for:
- High school students
- Post-secondary students
- Workforce development students

Length:
This 3-hour curriculum is comprised of three lessons. With supplemental materials, this curriculum can be adapted to a longer block of time.

Goal:
To help participants learn the cow and bull reproductive systems along with the process of bovine artificial insemination through a variety of activities and use of the Bovine Breeder artificial insemination simulator.

Synopsis:
This model and accompanying curriculum provide general information about cow and bull reproductive systems. This curriculum also includes lessons on the basic principles and technique of bovine artificial insemination. The lessons include facilitator instructions, slide presentations, and quizzes. The lessons and activities include objectives, materials required and approximate class time.

Curriculum Components:
- Teacher’s guide – Complete lessons, including detailed steps of activities, time and materials needed, student handouts and instructor information to teach the lesson
- Student materials
- Assessment tools
- PowerPoint presentation slides

Learning Objectives:

Lesson 1 – Cow and Bull Reproductive Systems
- Correctly identify terms associated with cow and bull reproduction.
- Name, locate and describe the functions of the parts of male and female reproductive system.
- Identify the primary male and female reproductive structures and their functions.

Lesson 2 – Basic Principals of Artificial Insemination
- Learn and understand the history of artificial insemination
- Understand the advantages and disadvantages of artificial insemination
- Display knowledge of the cost analysis process of artificial insemination

Lesson 3 – Artificial Insemination Technique
- Display knowledge of artificial insemination technique
- Understand the parts and equipment needed to complete the process
- Demonstrate proper technique with the Bovine Breeder artificial inseminator simulator