Benefits of A.I.

**Improved Genetics**

Using semen from proven A.I. sires allows for more rapid genetic improvement by accessing bulls that would be too expensive to obtain otherwise. For instance, semen from a bull that is worth $65,000 live might be purchased for $20 per straw.

**Biosecurity**

Artificial insemination is ideal for closed herds that need fresh genetics without purchasing sires. Frozen semen from reputable companies is subject to strict health and disease prevention standards.

**Enhanced Fertility**

Managing cattle for optimum A.I. performance concentrates the calving season so that the calf crop is more uniform, older and heavier at weaning and overall more valuable.

**Increased Profit**

Several economic studies have proven that A.I. with estrous synchronization generates more profit for purebred and commercial cattle production.

**Defined Calving Season**

AI can dramatically shift the calving distribution of a herd through the use of estrus synchronization protocols.

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Cost & Information

- The artificial insemination training costs $700 per attendee.
- Registration for the class is available online at www.utbeef.com. Full payment is due at the time of registration.
- The course fee includes classroom training, hands-on live animal training, a behind the scenes tour of Select Sires, and catered lunch both days.
- Equipment and semen will be available for purchase during the training.

Class Location

Middle Tennessee AgResearch and Education Center
P.O. Box 160
1000 Main Entrance Drive
Spring Hill, TN 37174
http://middle.tennessee.edu

Artificial Insemination Certification

A partnership of the Middle Tennessee AgResearch and Education Center, the University of Tennessee Department of Animal Science, and Premier Select Sires to add value to cattle production through improved reproductive management.

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Day One
8:30 a.m.  Registration, Introduction and Explanation of the Course Objectives

9 a.m.  Reproductive Anatomy and Physiology
This section will cover the key components of the female reproductive tract and hormones involved in regulation of their function. Time will also be spent on male reproductive anatomy and hormones to help understand bull fertility.

10 a.m.  Estrous Cycle explanation of the estrous cycle and related hormones.

10:30 a.m.  Artificial Insemination Technique
A thorough explanation of how to palpate the female reproductive tract, pass the insemination syringe through the cervix.

11 a.m.  Artificial Insemination Equipment
Explanation of, and price list for, the equipment involved in storing and thawing semen and inseminating cows. Special attention will be paid to advancements in technology.

11:30 a.m.  Lunch (Provided)

12:30 p.m.  Reproductive Tracts and Semen Handling
The class will be split and one section will practice A.I. technique on excised cow or heifer reproductive tracts. The other section will practice handling and thawing semen and loading it into the insemination rod.

1:30 p.m.  Reproductive Tracts and Semen Handling

2:30 p.m.  First Session Practicing With Cows
Stanchions are on site to restrain 12 cows for practicing A.I. technique. Several instructors will be available to walk you through the process and provide coaching.

4:30 p.m.  Dismiss for the evening  (Supper on your own)

Day Two
8 a.m.  Heat Detection The science and “art” of proper heat detection and heat detection aids.

8:30 a.m.  Estrous Synchronization Protocols and Pregnancy Diagnosis
This section will explain the most current synchronization protocols, highlighting their individual benefits or drawbacks. Discussion will also focus on different pharmaceuticals and the history of their use in reproductive management. Different methods of pregnancy diagnosis will be explained and their use demonstrated.

10 a.m.  Second Session Practicing With Cows

11:30 a.m.  Lunch (Provided)

1 p.m.  Written Exam With Discussion/ Equipment Orders
A brief written exam will be given and reviewed to continue the learning process. Time will also be allotted to place equipment and semen orders.

2 p.m.  Third and Final Session Practicing With Cows
Students will be asked to demonstrate that they understand the methods of thawing semen and inseminating cows. An instructor will work with each student until he or she is comfortable with the entire process.

4 p.m.  Evaluations and Award Certificates
Evaluations will be available to provide feedback for improving the course. Certificates will be awarded as the evaluations are turned in.

4:30 P.M.  Dismiss