

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.



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>

13-0230 05/13



Programs in agriculture and natural resources,
4-H youth development, family and consumer sciences,
and resource development.
University of Tennessee Institute of Agriculture,
U.S. Department of Agriculture and county governments cooperating.
UT Extension provides equal opportunities in programs and employment.

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.



Tentative Schedule

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 and Synchronization Protocols**
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.
- 11 a.m. Artificial Insemination Technique & Equipment**
A thorough explanation of how to palpate the female reproductive tract, pass the insemination syringe through the cervix.
- 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. Low Stress Cattle Handling**
This section will provide pertinent information and techniques involved with low stress cattle handling to optimize fertility
- 3:30 p.m. Station Tour & Live Cattle Handling Demo**
A wagon will be on-site for participants. This section includes a live cattle handling demo and an in-person look at the benefits of AI genetics on calf growth and performance & preview young sire progeny
- 5 p.m. Dismiss for the evening**
(Supper on your own)

Day Two

- 8 a.m. Reproductive Tracts & Technique**
- 9 a.m. Heat Detection & Pregnancy Diagnosis**
The science and “art” of proper heat detection and heat detection aids. Time will also be spent on the different methods to detect pregnancy
- 9:30 a.m. First Practice Session w/ 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. Second 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**

A.I. Training Information

Please visit UTBEEF.COM, or contact:

Ms. Ashley Savage
savage15@utk.edu

UT Animal Science
P.O. Box 160
Spring Hill, TN 37174