

Reproductive Hormone Unit Objectives: By the end of this unit, students will be able to...

- Define and describe each of the following: a. Estrous Cycle b. Endocrine Gland c. Target Tissue d. Estrus e. Endocrine System
- Summarize how a hormone “knows” which tissues and organs to activate.
- Explain why two messenger systems are needed in the bodies of animals.
- Identify, describe, and explain the function of GnRH, FSH, LH, Estradiol, Progesterone, and $\text{PGF}_{2\alpha}$.
- Identify GnRH, FSH, LH, Estradiol, Progesterone, and $\text{PGF}_{2\alpha}$ based on when they reach their peak levels in the estrous cycle.
- Explain the purpose, mechanism, and hormonal components of Lutalyse, Ovsynch, CIDR, and MGA.
- Summarize and explain each of the following stages of the estrous cycle:
a. Estrus b. Metestrus c. Diestrus d. Proestrus
- Explain the difference between a paracrine and endocrine hormone.