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**UNIVERSIDADE DE BRASÍLIA**  
**SECRETARIA DE ADMINISTRAÇÃO ACADÊMICA – SAA**  
**EMENTA/PROGRAMA DE DISCIPLINA**

ÓRGÃO RESPONSÁVEL: PROGRAMA DE PÓS-GRADUAÇÃO SAÚDE ANIMAL (PPGSA) / FACULDADE DE AGRONOMIA E MEDICINA VETERINÁRIA - FAV

CÓDIGO: XX N° DE CRÉDITOS: 2

NÍVEL: Mestrado / Doutorado

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**TITLE: THERIOGENOLOGY I – Stallion Reproduction and Assisted Reproductive Technologies**

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**SYLLABUS**

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Address the functional anatomy, physiology and endocrinology of the stallion; Abnormalities of the male reproductive tract; Management; Semen collection, evaluation and artificial insemination; Sexual behavior; Specific techniques used in reproductive examination of the stallion; Specific techniques used in semen evaluation of the stallion; Principles of cryopreservation; Semen extenders for frozen semen; Freezing semen; Freezing epididymal spermatozoa; Breeding with frozen semen; Techniques for evaluating frozen semen; Future reproductive technology.

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**BIBLIOGRAPHY**

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**BOOKS**

ALLEN, W.E. **Fertilidade e obstetrícia equina**. Ed. Varela. 1994.

BRINSKO, S.P.; BLANCHARD, T.L.; VARNER, D.D.; SCHUMACHER, J.; LOVE, C.C.

**Manual of Equine Reproduction**, 3<sup>rd</sup> ed. 2011.

CBRA – Manual para exame andrológico e avaliação de sêmen animal. 3<sup>a</sup> ed. 2013.

De JONGE, C.J.; BARRATT, C.L.R. **The Sperm Cell** Production, Maturation, Fertilization, Regeneration. 1Ed. Cambridge University Press 2006. 372 p.

CUNNINGHAM, J.G. **Tratado de Fisiologia Veterinária**, Ed. Guanabara Koogan, 3<sup>a</sup> ed. 2004.

DAVIES MOREL, M.C.G. **Equine Reproductive, Physiology, Breeding and Stud management**. 3<sup>rd</sup> ed. 2008.

ENGLAND, G.C.W. **Fertility and Obstetrics in the Horse**. 3 Ed. Blackwell Science Ltd, UK, 2005. 283p.

HAFEZ, B.; HAFEZ, E.S.E. **Reprodução animal**. Ed. Manole, 7<sup>a</sup> ed. 2003.

McKINNON, A.O.; SQUIRES, E.L.; VAALA, W.E.; VARNER, D.D. **Equine Reproduction**, 2<sup>nd</sup> ed. 2011.

MORROW, D.A. **Current therapy in theriogenology**. W.B. Saunders Company:Philadelphia, 1986.1143p.

NEILL, J.D. **Knobil and Neill's Physiology of reproduction**. 3 Ed. Elsevier:Amsterdam, 2006. 3230p

PINEDA, M.H., DOOLEY, M. **Veterinary Endocrinology and Reproduction**, 5<sup>a</sup> ed., Iowa State Press,

2003.

SAMPER, J.C. **Equine Breeding Management and Artificial Insemination**, 2<sup>nd</sup> ed, 2009.

SWENSON, M.J. – Dukes / **Fisiologia dos Animais Domésticos**, Ed. Guanabara Koogan, 11<sup>a</sup> ed.

## JOURNALS

Acta Scientiae Veterinaria

Andrologia

Animal Reproduction

Animal Reproduction Science

Arquivos Brasileiros de Medicina Veterinária e Zootecnia

Biology of Reproduction

Ciência Animal Brasileira

Ciência Rural

Endocrinology

Equine Veterinary Education

Equine Veterinary Journal

Journal of Equine Veterinary Science

Reproduction and Domestic Animal

Reproduction, fertility and development

Revista Brasileira de Reprodução Animal

Theriogenology

The Veterinary Clinics of North America: Equine Practice

## WEB

[www.periodicos.capes.gov.br](http://www.periodicos.capes.gov.br)

[www.cbra.org.br](http://www.cbra.org.br)

[www.scielo.br](http://www.scielo.br)

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov)

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## COURSE CURRICULUM

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- 1) Functional anatomy, physiology and endocrinology of the stallion;
- 2) Abnormalities of the male reproductive tract;
- 3) Management;
- 4) Semen collection, evaluation and artificial insemination;
- 5) Sexual behavior;
- 6) Specific techniques used in reproductive examination of the stallion;

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7) Specific techniques used in semen evaluation of the stallion;

Assisted Reproductive Technologies

- 8) Principles of cryopreservation;
  - 9) Semen extenders for frozen semen;
  - 10) Freezing semen;
  - 11) Freezing epididymal spermatozoa;
  - 12) Breeding with frozen semen;
  - 13) Techniques for evaluating frozen semen;
  - 14) Future reproductive technologies.
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BRASÍLIA December 18, 2019

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