Reproductive System

Reading Assignment:
Note: Tests (i.e. self-assessment and case study quizzes, exams) will only cover required, but not recommended or optional readings.

PERUSE (optional)
Ch. 28.1 - 28.2: Male and Female Reproductive Systems

• Read with sufficient care to gain an overview of the main anatomical components, and become familiar with the terminology
• 13e: pp. 1130-1159; 14e: pp. 1042-1069;

1) Outline the steps of meiosis

• Ch. 3.7, section "Reproductive cell division", 13e: pp. 100-101; 14e: pp. 95-96;
• Recommended: Review this animation on meiosis: http://www.sumanasinc.com/webcontent/animations/content/meiosis.html

2) Compare the mitotic and meiotic cell division processes

• Ch. 3.7, section "Somatic cell division", 13e: pp. 96-99; 14e: pp. 91-95;
• plus figure 3.34 (13e: p. 102; 14e: p. 97)

3) Describe and compare the processes of spermatogenesis and oogenesis

• Ch. 28.1, sections "Spermatogenesis" and "Sperm", 13e: pp. 1135-1136; 14e: pp. 1045-1046;
• Ch. 28.2, section "Oogenesis and follicular development", particularly table 28.1; 13e: pp. 1146-1150; 14e: pp. 1057-1060;

Recommended:
Ch. 28.3: The Female Reproductive Cycle
13e: pp. 1160-1164; 14e: pp. 1069-1074;

4) Explain the differences between the various methods for birth control
Ch. 28.4: Birth control and methods of abortion; 13e: pp. 1165-1167; 14e: pp. 1074-1077;

5) Describe the effects of aging on the reproductive system
Ch. 28.6: Aging and the reproductive systems; 13e: p. 1170; 14e: p. 1079-1080;
Optional:
Box on Disorders of the reproductive systems; Ch. 28, pp. 1172-1174 (13e); pp. 1080-1084 (14e);

6) Outline the major events and changes during embryonic and fetal development:
Table 29.2 (13e: p. 1198; 14e: p. 1106)

Optional: Detailed text on embryonic and fetal periods in human development
Ch. 29.1 and 29.2, 13e: pp. 1182-1199; 14e: pp. 1090-1106;

7) Define and list the affects on fetal and embryonic development through teratogens
such as alcohol consumption, smoking, irradiation, infections and certain chemicals
Ch. 29.3 Teratogens, 13e: p. 1201; 14e: pp. 1107-1108;

8) Describe the procedures for prenatal diagnostic tests
Ch. 29.4, 13e: pp. 1201-1203; 14e: pp. 1108-1110;

Optional:
Ch. 29.5 Maternal changes during pregnancy
Ch. 29.6: Exercise and pregnancy
Ch. 29.7: Labor
Ch. 29.8: Adjustments of the infant at birth
Ch. 29.9: The physiology of lactation
Ch. 29.10: Inheritance
Box on disorders