IB 140: HUMAN REPRODUCTION
Integrative Biology 140, 4 credits, Spring 2013
Lecture on Tuesdays & Thursdays, 2:00 PM – 3:30 PM, 155 Dwinelle
Discussion Section one hour a week

Instructor: Tom Carlson  E-mail: <tcarlson@berkeley.edu>
Office Hours: Tuesday 3:30-4:00 PM, Wednesday 11:10-12:00, Thursday 12:40-1:30
Office hours will be in Valley Life Sciences Building room 1098. This room is on the ground
floor on the west side of the building. To get to the office, walk south from the feet of the T. r ex
dinosaur and enter the last door on the left (east) before reaching the south exit doors.

GSIs:
Gallieau, Sherrie  sherrie@berkeley.edu
Kapadia, Bhumika  bkapadia@berkeley.edu
Kundu, Aishwarya  akunduroy@berkeley.edu
Nakata, Jennifer  jnakata@berkeley.edu

Course Description:
This course focuses on the biological and cultural aspects of human reproduction including
conception, embryology, pregnancy, labor & delivery, lactation, infant/child development,
puberty, and reproductive aging. This includes the study of factors that diminish and factors
that enhance fertility, reproduction, and maternal-child health. We explore evolutionary,
ecological, environmental, cultural, ethnobiological, and nutritional determinants of fertility,
reproductive rate, infant survival, and population growth.

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Required Reader: All my powerpoint presentations are in this required reader. The reader can
be purchased at Krishna Copy Center at 2111 University Ave. in Berkeley.

Lectures are based primarily, but not exclusively, on information in the required test. Additional
information not in the book is integrated into some of the lectures. This additional information
will typically include a citation of the scientific publication source of the information.

Exam material will be based only on material presented in the lectures.

Midterm #1 on 2/19/13 at 2:00 PM: (30% of grade) 50 questions = 50 points
Midterm #2 on 4/2/13 at 2:00 PM: (30% of grade) 50 questions = 50 points
Final Exam on 5/13/13 at 11:30 AM: (34% of grade) 57 questions = 57 points
Discussion section: (6% of grade) = 10 points
Total possible points for course = 167 points
Sequence of Lecture Topics:

1) Neuro-endocrine system, hormone biology, and hormone sensitive tissues (Chap 1)
2) Female reproductive system (Chapter 2)
3) Menstrual cycle (Chapter 3)
4) Male reproductive system (Chapter 4)
5) Sexual differentiation (Chapters 5 & 17)
6) Puberty & adolescent development (Chapter 6)
7) Reproductive aging (Chapter 7)
8) Human sexual response (Chapter 8)
9) Sexually transmitted diseases (Chapter 18)
10) Contraception & induced abortion (Chapters 14 & 15)
11) Infertility (Chapter 16)
12) Gamete transport, & fertilization (Chapter 9)
13) Pregnancy (Chapter 10 & 15)
14) Labor & delivery (Chapters 11)
15) Neonate, parental bonding, breastfeeding (Chapter 12 & 13)

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IB 140: Human Reproduction Reader

Pages 1-21, Lecture Topic #1: Neuro-endocrine system & hormone sensitive tissues (Chapter 1)
Pages 22-42, Lecture Topic #2: Female reproductive system (Chapter 2)
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Pages 54-73, Lecture Topic #4: Male reproductive system (Chapter 4)
Page 74-93, Lecture Topic #5: Sexual differentiation (Chapter 5 & 17)
Pages 94-107, Lecture Topic #6: Puberty & adolescent development (Chapter 6)
Pages 108-123, Lecture Topic #7: Reproductive aging (Chapter 7)
Pages 124-156, Lecture Topic #8: Human sexual response (Chapter 8)
Pages 157-168, Lecture Topic #9: Sexually transmitted infections (Chapter 18)
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Pages 194-205, Lecture Topic #12: Gamete transport, & fertilization (Chapter 9)
Pages 206-239, Lecture Topic #13: Pregnancy (Chapter 10)
Pages 240-270, Lecture Topic #14: Labor & delivery (Chapters 11)
Pages 271-282, Lecture Topic #15: Neonate, parental bonding, nutrition (Chapters 12 & 13)
Pages 283-298. Tables and Diagrams
IB 140: HUMAN REPRODUCTION DISCUSSION SECTION SYLLABUS

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Instructor: Tom Carlson  tcarlson@berkeley.edu

GSIs Teaching Discussion Sections:
Gallioupe, Sherrie  sherrie@berkeley.edu
Kapadia, Bhumika  bkapadia@berkeley.edu
Kundu, Aishwarya  akunduroy@berkeley.edu
Nakata, Jennifer  jnakata@berkeley.edu

Section 001: M 1-2  Kapadia, Bhumika  bkapadia@berkeley.edu
Section 002: M 2-3  Kapadia, Bhumika  bkapadia@berkeley.edu
Section 003: M 3-4  Kapadia, Bhumika  bkapadia@berkeley.edu
Section 004: Tu 8-9  Nakata, Jennifer  jnakata@berkeley.edu
Section 005: Tu 1-2  Nakata, Jennifer  jnakata@berkeley.edu
Section 006: Tu 12-1  Nakata, Jennifer  jnakata@berkeley.edu
Section 007: W 12-1  Nakata, Jennifer  jnakata@berkeley.edu
Section 008: W 2-3  Kapadia, Bhumika  bkapadia@berkeley.edu
Section 009: W 9-10  Kundu, Aishwarya  akunduroy@berkeley.edu
Section 010: Th 8-9  Kundu, Aishwarya  akunduroy@berkeley.edu
Section 011: Th 12-1  Kundu, Aishwarya  akunduroy@berkeley.edu
Section 012: Th 1-2  Kundu, Aishwarya  akunduroy@berkeley.edu
Section 013: F 12-1  Gallioupe, Sherrie  sherrie@berkeley.edu
Section 014: F 1-2  Gallioupe, Sherrie  sherrie@berkeley.edu
Section 015: F 2-3  Gallioupe, Sherrie  sherrie@berkeley.edu
Section 016: F 11-12  Gallioupe, Sherrie  sherrie@berkeley.edu

DISCUSSION SECTION FORMAT:
Discussion section semester grade contributes to 6% of final IB 140 course grade = 10 points out of a total of 167 points for the course.
Each discussion section meets one hour a week.
Attendance in discussion section is required.

MATERIAL COVERED: material presented in the Carlson lectures the previous week. Articles related to lecture topics may be integrated into the section discussions by the GSIs.

WEEKLY QUIZ: Each week there will be a quiz in the discussion section based on the material presented in the Carlson lectures the previous week. The quizzes will be self-graded in class and turned in to the GSI to confirm your attendance in class. There will be 10 quizzes administered throughout the course. Each student is able to drop one of the quizzes.

REQUIRED PAPER DUE IN your IB 140 Discussion section the week of April 15-19.
One page, single space with size 12 font on topic related to human reproduction. Paper text should be no more than one page single space with 12 font and should include three or four citations from peer reviewed scientific articles.

Discussion section grade will be based on assessment of ten items (nine quizzes and the one required paper). The required paper is worth the same as one of the quizzes.