

ANTH 369: HUMAN GROWTH & DEVELOPMENT
Fall Quarter 2008
4 credit hours (Satisfies a SC requirement)

Class Times: TTh 8:30 - 9:50 am

Class Location: 302 Gerlinger

Instructor: Dr. Josh Snodgrass

Office: 354 Condon Hall

Office Hours: T & Th 2-3 (& by appointment)

Phone: 346-4823

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Prerequisite: None (ANTH 270 recommended)

Course Description: Examines key issues in human and nonhuman primate growth and development; addresses genetic, social, and ecological determinants of variation in growth.

Course Content: This course provides an overview of key issues in human growth and development, from conception through adulthood. Specifically, this course views human growth and development as a biocultural process that demands an integrated analysis. Throughout the class, we will draw upon findings and concepts from human biology, evolutionary ecology, developmental biology, and cultural anthropology. Issues to be addressed in this course include: 1) the basic principles of human growth and development; 2) comparative evolutionary perspectives on human growth, incorporating studies of living primates and fossil human ancestors; 3) techniques for assessing human growth status; and 4) genetic, social, and ecological determinants of variation in growth. After constructing a conceptual framework, the course will follow the trajectory of human growth and development from conception through adulthood. A series of case studies will be used to elaborate the relevant biological, cultural, and social issues.

Format: The course format will consist of lectures and directed class discussions.

Required Readings: Assorted articles and book chapters

Evaluation Criteria: The grade in the course will reflect performance on a midterm exam, 3 short (2-3 page each) reaction papers, participation in class discussions, and a take-home final exam (10-15 pages).

Midterm Exam (In Class 10/29)	30%
Reaction Papers (3 total)	20%
Take-Home Final Exam (Due 12/6)	30%
Class Participation	20%

The midterm exam will be based on lectures, videos, readings, and class discussions, and will include objective (multiple choice & matching), fill-in-the-blank, short answer, and short essay sections. The take-home final exam will consist of five essay questions (2-3 pages each; 10-15 pages total) that require integration of course material (not just the material introduced after the midterm); one week will be given to write the take-home exam.

Reaction Papers: During the quarter, each student will write three short (2-3 page) reaction papers on articles provided by the instructor (see "Special Topics" on the schedule). These response papers provide opportunities for discussion and critical analysis of current biological, cultural, and social issues related to human growth and development. Reaction papers are only 2-3 pages long so writing should be concise and focused around a couple of main points.

Schedule:

Week	Date	Topics	Required Readings
1	9/24	Introduction and Course Overview; Why Study Growth?	Bogin 1999 (Introduction)
	9/26	Historical Perspective on Human Growth Studies; Basic Principles	Tanner 1998 Bogin 1999 (Chapter 2)
2	10/1	Human Growth in Evolutionary Perspective; Our Mammalian and Primate Heritage	Bogin 2002 Rosenberg & Trevathan 2003
	10/3	Growth & Development across the Life Cycle; Reproductive Ecology	Ellison 2001 (Chapter 6)
3	10/8	Pregnancy; Prenatal Growth & Development; Birth <i>Video: The Miracle of Life</i>	Malina et al. 2004 (Chapter 2)
	10/10	Lecture continued (Pregnancy; Prenatal Growth & Development; Birth) **Discussion in Class on Special Topic I** <i>Special Topic I: Genetic Screening—Choose Option # 1, 2, or 3</i> 1) Check 2005 <u>AND</u> Sound Medicine Podcast; 2) Johnson 2003; or 3) Weil 2006 **REACTION PAPER DUE TODAY**	Ellison 2001 (Chapter 3)
4	10/15	Brain Development <i>Video: The Secret Life of the Brain</i>	Eliot 2000
	10/17	Energetics & Regulation of Growth; Skeletal & Dental Growth; Infancy; Breastfeeding	Coutsoudis & Bentley 2004 Malina et al. 2004 (Chapter 6)
5	10/22	Childhood & Juvenile Growth; Why Grow Up? **Discussion in Class on Special Topic II** <i>Special Topic II: Childhood Vaccination (McNeil 2002 <u>AND</u> Harris & O'Connor 2005)</i> **REACTION PAPER DUE TODAY**	Ellison 2001 (Chapter 5)
	10/24	Adolescent Growth; Puberty; Reproductive Maturity	Malina et al. 2004 (Chapter 15)

Schedule (continued):

Week	Date	Topics	Required Readings
6	10/29 10/31	Midterm Exam <i>Video: Raising Cain—Protecting the Emotional Life of Boys</i>	
7	11/5 11/7	Methods for Assessing Growth and Maturity **Discussion in Class on Special Topic III** <i>Special Topic III: Where Have the Men Gone? (BBC 2003 AND Gurian 2005)</i> **REACTION PAPER DUE TODAY** Physiological vs. Chronological Age; Age Determination in Forensic Anthropology & Bioarchaeology	Malina et al. 2004 (Chapter 3) Loth & Iscan 2000
8	11/12 11/14	Interpopulation Variation in Human Growth; Stunting & Wasting; Secular Trends; Small but Healthy?; Developmental Plasticity Genetic and Endocrine Determinants of Growth	Bogin 5 Malina et al. 2004 (Chapter 23) Bogin 7
9	11/19 11/21	Ecological and Environmental Influences on Growth Social and Economic Determinants of Health; Nutrition	Schell & Knutsen 2002 Norgan 2002 Johnston 2002
10	11/26 11/28	Economic Modernization; Psychosocial Stress and Growth; Changing Human Growth Patterns; Obesity **Discussion in Class on Special Topic IV** <i>Special Topic IV: Who is Responsible for Childhood Obesity? (Mann 2005 AND Cohen 2003)</i> **REACTION PAPER DUE TODAY** Putting It All Together; What Do We Know About Patterns of Growth & Development in other Hominids	Sapolsky 2004 Malina et al. 2004 (Chapter 24) Malina et al. 2004 (Chapter 29)
11		Take-Home Final Exam Due by Thursday, 12/6 @ 5:00 pm (exam will be available Thursday, 11/29)	