

Syllabus for PSY 735D "Seminar on Developmental Neuropsychology" - (TTh 3:30-4:45)

Instructor: Dr. George F. Michel

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Office Hours: MW 1:30-3:00 or by appt.

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Course Format: The assigned readings must be completed by the date of the topic in order to facilitate class discussion. The class will consist of some lecture and much discussion. Each student will be responsible for providing discussion questions (at least two) concerning the reading assigned for that class before the beginning of each class. The student will attempt to provide an initial written answer to each study question submitted. Students will be responsible for class discussion and students will alternate in being responsible for leading class discussions for those assigned readings marked by "Presentation". Grading will be based upon the instructor's evaluation of the student's quality of class participation and the discussion questions generated during the course.

Course Outline:

<u>Date (week of)</u>	<u>Topic</u>	<u>Assigned Reading</u>
8/15	Introduction Developmental Psychobiology & Developmental Neuropsychology	Rose Ch 1 (19pp) Michel (2001)
8/22	Knowing What We Know Biology & Psychology Problems	Rose Ch 3 (28pp) M & M Ch 2
8/29	The Triumph of Reductionism? Developmental Psychobiology	Rose Ch 4 (24pp) M & M Ch 3
9/5	Genes and Organisms Genetics and Development	Rose Ch 5 (36pp) M & M Ch 5
9/12	<u>Presentation:</u> Gene-Environment Interplay and Psychopathology	Rutter, et al.
	<u>Presentation:</u> Nature-Nurture and the Disunity of Knowledge	Meaney
9/19	Neuroembryology & Behavior <u>Presentation:</u> Sex Hormones and Brain Development	M & M Ch 6 Cameron (18pp)
9/26	Early Brain Injury and Plasticity <u>Presentation:</u> Development, Plasticity, & Learning	Kolb & Gibb (15pp)

10/3	In the Auditory System Neural Plasticity and Development <u>Presentation</u> : Brain-Behavior Relationships in Early Visual Development	Aslin & Hunt (15pp) Elbert, et al. (11pp) Dannemiller (15pp)
10/6-10/11	Spring Break	
10/17	Language Development and Brain Injury <u>Presentation</u> : Treatment of Children with SLI and Dyslexia	Bates & Roe (26pp) Bedi (8pp)
10/24	Spatial Cognitive Development <u>Presentation</u> : Neuropsychology of Face Processing	Stiles (15pp) de Haan (16pp)
10/31	<u>Presentation</u> : Attachment <u>Presentation</u> : Temperament	Hofer & Sullivan (16pp) Fox et al. (15pp)
11/7	<u>Presentation</u> : Autism <u>Presentation</u> : Disorders of Attention	Ozonoff (11pp) Karatekin (15pp)
11/14	<u>Presentation</u> : Schizophrenia <u>Presentation</u> : Assessment	Elvevag & Weinberger (19pp) Kaplan
11/28	Drugs and Behavior <u>Presentation</u> : Sex Differences	Kolb & Whishaw (26pp) Moore (2002)

Bibliography.

Michel, G.F. & Moore, C.L. (1995). *Developmental psychobiology: An interdisciplinary science*. Cambridge, MA: The MIT Press.

Rose, S. (1997). *Lifelines: Biology beyond determinism*. New York: Oxford University Press.

Nelson, C.A. & Luciana, M. (Eds.) (2001). *Handbook of developmental cognitive neuroscience*. Cambridge, MA: The MIT Press.

For an excellent introduction to human neuropsychology

Kolb, B. & Whishaw, I.Q. (1995). *Fundamental of human neuropsychology*. New York: Freeman & Co.

For an excellent introduction to human developmental neuropsychology

Spreen, O, Risser, A.H. & Edgell, D. (1995). *Developmental neuropsychology*. New York : Oxford U. Press.

For an excellent introduction to neuropsychological tests

Spreen, O & Strauss, E. (1991). *A compendium of neuropsychological tests: Administration, norms, and commentary*. New York: Oxford U. Press.

For a comprehensive account of cognitive neuroscience

Gazzaniga, M.S. (Ed.) (2001). *The new cognitive neurosciences*. Cambridge, MA: The MIT Press.

For a good introduction to biological psychology

Toates, F (2001). *Biological psychology: An integrative approach*. New York: Prentice Hall.

For a comprehensive account of neuropsychiatry

Yudofsky, S.C. & Hales, R.E. (Eds.) (2002). *The American Psychiatric Press textbook of neuropsychiatry and clinical neurosciences*, fourth edition. Washington, DC: The American Psychiatric Press.