INVESTIGATIVE NEUROSCIENCE (NEURO 203/NRSC 201) LECTURE SCHEDULE – as of 16 AUGUST 2016

LSU Neuroscience Center Seminar Room (8th floor) Lion Eye Center Building, 2020 Gravier Street, New Orleans LA 70112 USA Tuesdays & Thursdays - 2 - 4 PM (exceptions as indicated)

Course Director: Walter J. Lukiw, BS, MS, PhD

Neuroscience Center and Departments of Neurology and Ophthalmology email: wlukiw@lsuhsc.edu

• Overview: 23 two-hour lectures by leading experts in the field on neuroscience with emphasis on brain and visual structure and function, technical approaches to research, and brain and visual pathology

• Grade Evaluation: one preliminary examination (30%); one research topic paper (30%); one final exam (40%);

details will be given in first class meeting 08/13/2015

• Textbooks (Note that individual lecturers may assign specific scientific journal articles, or specific chapters from the two texts listed below, or other texts, for review prior to class, disseminated by email as .pdf files):

Basic Neurochemistry, Molecular, Cellular & Medical Aspects, 7th Edition, 2006 (editors Siegel, Albers, Brady, Price); Principles of Neural Science, 5th Edition, 2012, (editors Kandel, Schwartz, Jessel, Siegelbaum, Hudspeth).

SCHEDULE

| DATE | ТОРІС | LECTURER |
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| 08/18 | First Class Meeting, introduction to NEURO 203 and course overview Overview of the nervous system Experimental design and statistics | Dr. WJ Lukiw Dr. T. Weyand Dr. Z. Fang |
| 09/08 09/13 09/15 09/20 | | Dr. C. Wu Dr. S. Gasparini Dr. J. Erickson Dr. X. Tian Dr. C. Chen Dr. T. Weyand Dr. NG Bazan Dr. H. Xia |
| | List of 'Neuroscience Research Topics' handed out (each student write | <u>s a 3-page research paper)</u> |
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| 09/29 10/04 | Gene expression in neurons Visual System I Visual system II | Dr. W.J. Lukiw Dr. Song Hong Dr. M. Jin |
| 10/11 | Auditory system I (note change to Friday 10/7 2-4 pm) Auditory System II Motor system | Dr. H. Farris Dr. J. Lentz Dr. T. Weyand |
| 10/20 | Neuroplasticity and vocal behavior Visual system pathology/inflammation Epilepsy | Dr. Xiao Ching Li Dr. H.E. Bazan Dr. L. Belayev |
| 10/27 11/01 | Speech and language processing Stroke and head trauma Alzheimer's disease | Dr. H. Farris Dr. L. Belayev Dr. W.J. Lukiw |
| <mark>11/08</mark> | <u>Final Research Topics Papers due (30% of grade)</u> Final Exam (last 12 lectures; 40% of grade) | |