University Curriculum Committee

Catalog Copy for February 8, 2001

p.76: Add Neuroscience minor as follows:

**Neuroscience**

Larry W. Means, Director, 133 Rawl

The neuroscience minor is designed to provide students with an introduction to the study of neuroscience at the various structural and functional levels of analysis including molecular, cellular, integrative, and behavioral. (Students interested in a neuroscience major, should see Multidisciplinary Studies described above and contact the Neuroscience program director.) The minor requires completion of core courses (20 s.h.), a laboratory course (2 or 3 s.h.) and an elective course (2-5 s.h.). In the event that courses required for the minor are also required for the major, neuroscience elective courses should be taken so that a minimum of 24 s.h. of unique neuroscience courses are completed for the minor. Any interested student should contact the program director for information. The major advisor should send a potential minor to the director for advising.

**Core (20 s.h.)**

BIOL 1200, 1201. Principles of Biology II (4,0) (F) (S) (SS) (GE:SC)

CHEM 1160, 1161. General Chemistry and Laboratory II (3,1) (F) (S) (SS) (GE:SC)

    PSYC 1000. Introductory Psychology (3) (F) (S) (SS) (GE:SO) or PSYC 1060. Honors Introductory Psychology (3) (F) (S) (GE:SO)

PSYC 3310. Introduction to Neuroscience (3) (F) (S) (SS) (GE:SO)

    NEUR 4990. Cellular and Molecular Neuroscience (3) (F) (P: Senior standing and consent of instructor)

    NEUR 4991. Behavioral and Integrative Neuroscience (3) (S) (P: Senior standing and consent of instructor)

**Neuroscience Laboratory Course (One of the following courses: 2-3 s.h.)**

    NEUR 4201. Laboratory Methods in Cellular and Molecular Neuroscience (2) (S)

    PSYC 5312, 5313. Laboratory Methods in Physiological Psychology (3,0) (P: PSYC 3310, 3311, or consent of instructor)

    PSYC 5315, 5316. Behavioral Neuroscience: Literature and Laboratory Experience (3,3) (P: PSYC 2210, 3310 or 3311, and consent of instructor)

**Electives. (One of the following, 2-5 s.h.)**

    BIOL 2130. Survey of Human Physiology and Anatomy (4) (F) (S) (SS) (GE:SC) (P: BIOL 1050, 1051; or 1100, 1101)

    BIOL 2131. Survey of Human Physiology and Anatomy Laboratory (1) (F) (S) (SS) (GE:SC) (P/C: BIOL 2130)

    BIOL 2300. Principles of Genetics (3) (F) (S) (SS) (GE:SC) (P: 2 BIOL courses)

    BIOL 3310, 3311. Cellular Physiology (4,0) (F) (S) (SS) (P: organic CHEM or biochemistry course)

    BIOL 3320. Principles of Animal Physiology (3) (F) (S) (SS) (P: organic CHEM or biochemistry course)

    BIOL 3520. Biological Evolution (3) (F) (S) (SS)

    BIOL 5510, 5511. Transmission Electron Microscopy (4,0) (S) (P: Senior standing as a biology major or consent of instructor)

    BIOL 5520, 5521. Scanning Electron Microscopy and X-ray Analysis (2,0) (P: Senior standing as a biology major or consent of instructor)

    CHEM 2750, 2753 Organic Chemistry I and Laboratory I (3,1) (F) (S) (SS) (P: CHEM 1160, 1161; C for 2750: CHEM 2753)
CHEM 2760, 2763 Organic Chemistry II and Laboratory II (3,1) (F) (S) (SS) (P for 2760: CHEM 2750; C for 2760: CHEM 2763)

CHEM 2770. Biological Chemistry (3) (F) (S) (GE:SC) (P: CHEM 2650 or 2750)

CHEM 2771 Biological Chemistry Laboratory (1) (F) (S) (GE:SC) (C: CHEM 2770)

ELEC 2054, 2055. Electricity/Electronics Fundamentals (3,0) (F) (S) (SS) (P: ITEC 2000, 2001; MATH 1065)

MATH 2121. Calculus for the Life Sciences I (3) (F) (S) (SS) (GE:MA)

MATH 2122. Calculus for the Life Sciences II (3) (F) (S) (SS) (P: MATH 2121)

NEUR 4200. Literature in Neuroscience (1) (F)

PHIL 1262. Introduction to Philosophical Issues in Biology (3) (F) (S) (GE:HU)

PHIL 2261. Introduction to Philosophy of Science (3) (GE:HU)

PSYC 2210. Experimental Psychology (4) (WI) (F) (S) (GE:SO) (P: MATH 1065 or equivalent or MATH 2127; PSYC 2101)

PSYC 3225. Psychology of Learning (3) (F) (S) (SS) (GE:SO)

PSYC 3226. Human Learning and Cognition (3) (F) (S) (SS) (GE:SO)

PSYC 3290. Comparative and Evolutionary Psychology (3) (GE:SO)

PSYC 3311. Neuropsychology (3) (F) (S) (GE:SO)

PSYC 5311. Sensation and Perception (3) (P: PSYC 3310, 3311 or consent of instructor)

PSYC 5320. Behavioral Pharmacology Seminar (3) (P: PSYC 3310, 3311 or consent of instructor)

Any course listed under Neuroscience Laboratory Courses not used to meet the Neuroscience Laboratory Course requirement.

*A minimum of 24 S. H. is required for the minor.

*p.390: Add new NEUR science courses as follows:

**4900. Cellular and Molecular Neuroscience** (3) (Formerly NEUR 5000) (F) P: Senior standing and consent of instructor. Introduction to the cellular mechanisms and molecular basis of neuron and glial function and interaction. Topics include membrane trafficking, action potentials, receptors, and signal transduction, gene transcription factors, neuroimmunology, and developmental neuroscience.

**4901. Behavioral and Integrative Neuroscience** (3) (Formerly NEUR 5001) (S) P: Senior standing and consent of instructor. Introduction to the neural systems and the neural basis of behavior. Topics include basic neuroanatomy; computational neuroscience, learning and memory; sensory and motor systems, neural basis of affective behavior, consciousness and cognitive neuroscience, neural plasticity, and brain lateralization and language.

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**College of Arts and Sciences**

**Department of Geography**

*p. 344: Delete the following GEOG courses:

**2351, 2352, 2353, 2354, 2355, 2356, 2357**

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**Department of Geology**

*p. 345: Change name, but not description, of GEOL courses 1500 and 1501 as follows:

**1500. Dynamic Earth**

**1501. Dynamic Earth Laboratory**
Department of Mathematics

p. 114: Revise requirements for Mathematics minor as follows:

Minors

A. Mathematics

Change note to read:

Minimum requirement for mathematics minor is 24 s.h. of credit as follows:

Change elective requirement from 7 s.h. of electives to 6 s.h. as follows:

A. Mathematics

2. Electives acceptable for a BA major in mathematics..............................6 s.h.

p. 370: Add new MATH course as follows:

1083. Introduction to Functions (3) (F,S,SS)(GE:MA) May not be taken by students who have successfully completed MATH 1074 or MATH 1085. Intended BS in mathematics major should take MATH 1085. P: Consent of dept chair. Accelerated introduction to language of functions. Emphasis on trigonometry as a preparation for calculus sequence MATH 2171-73.

p. 370: Revise the first sentence of the catalog description and add a sentence for MATH course as follows:

1074. Applied Trigonometry (2) (F) (S) (SS) Students planning to take MATH 2171 must elect 1083 or 1085. May not be taken by students who have credit for MATH 1083 or 1085.

p. 375: Double list MATH course as follows (same as CSCI 5774):

5774. Programming for Research (3) Same as CSCI 5774. May not count toward any major or minor degree in mathematics. P: General statistics course or consent of instructor. Designed for graduate student who wishes to use computer science option in meeting research skills as required by his or her department. Emphasizes a minimum level of programming skill and use of statistical packages.

Department of Psychology

p. 408: Delete PSYC 2240.

School of Allied Health Sciences

Department of Rehabilitation Studies

p. 415: Delete REHB 4992.

School of Art

p. 144: Change "image design" option to "photography" in two places as follows:

Under COMMUNICATION ARTS concentration

Change Image design students ... to read

Photography students take ART 2200, 2210, 3200, 3210, 3220, 3250, 4220, 4240, 4250, 5220.

Change last note Communication arts... to read

Communication arts courses explore creative problem solving in graphic design, illustration, and photography. Students will be introduced to various techniques utilized in dealing with issues in communication and aesthetics.
p. 284: Change course listing for ART course as follows:

**4250. Professional Practices in Photography (3) (S)** 2 lecture and 4 studio hours per week. P: ART 4220, 4240. Advanced problems in photography with emphasis on both digital and analog solutions to professional projects.

p. 283: Renummer ART course as follows:

**2220. Introduction to Photography (3) (F) (S)** Formerly Art 3220. P: ART 1015, 1030. Practical course in basic camera techniques, darkroom procedures, and assignments to include a full scope of photographic problems.

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**School of Business**

p. 154: Change Business Administration Minor requirements for MATH 2283 ... to read as follows:

MATH 2283 or equivalent introductory statistics course. If another statistics course is substituted, an additional business course numbered 3000 or above is required to meet minor requirements.

Department of Management

p. 375: Change level of MGMT course from 3342 to 4342 and change description as follows:

**4342. Organizational Change and Development (3) (Formerly 3342) (F) (S)** Basic, yet comprehensive, overview of organizational development. Evolution of field, key concepts, and methods that drive organizational development; techniques to diagnose opportunities for change; and tools to implement and evaluate organizational development initiatives.

p. 375: Change level of MGMT course from 3343 to 4343 and change description as follows:

**4343. Organizational Leaders and Leadership (3) (Formerly 3343) (F) (S)** Current and emerging leadership theories serve as basis for discussing leadership ability of both historical and contemporary organization managers.

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**Department of Marketing**

p. 154: Add new concentration in Marketing as follows:

4. Concentration area .................................................................18 s.h.

Electronic Commerce:

- DSCI 4113. Data Base Management Systems (3) (F) [P: DSCI 3063]
- DSCI 4123. Distributed Information Systems (3) (S) [P: DSCI 3063]
- FINA 3824. Financial Analysis and Planning (3) (F) (S) [P: FINA 3724]
- MKTG 4532. Business and Organizational Marketing (3) (F) (S) [P: MKTG 3832]
- MKTG 4790. Distribution Management (3) [P: MKTG 3832]
- MKTG 4975. Electronic Commerce (3) (F) (S) [P: MKTG 3832]

p. 378: Add new MKTG course as follows:

**4975. Electronic Commerce (3) (F) (S)** P: MKTG 3832. Examines processes necessary to integrate a website into an organization’s strategic plan and basics of the Internet. Focuses on strategic application of website to enhance corporate profit, serve customers, and market organization. Covers improvement, maintenance, and promotion of site, including registering with search engines and directories.

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**School of Computer Science and Communication**

**Department of Computer Science**

p. 312: Delete banked courses CSCI 1584 and CSCI 1618.

p. 310: Delete CSCI 3609
School of Education
Department of Counselor and Adult Education
p. 307: Delete COAD 4800.

School of Health and Human Performance
Department of Recreation and Leisure Studies
p. 412: Delete RCLS 4242.

School of Human Environmental Sciences
p. 350: Bank HESC courses as follows:

3999. Issues in Human Environmental Sciences
4999. Professional Development in Human Environmental Sciences
Replace HESC 3999 and 4999, with 6 s.h. adviser-approved electives in the respective sections of the following degree programs:
BS in Birth-Kindergarten Teacher Education
BS in Child Life
BS in Nutrition and Dietetics
BS in Hospitality Management

Department of Child Development and Family Relations
p. 299: Change title of CDFR 2001 course from Child Development II as follows:

2001. Child Development II: Middle Childhood Through Young Adulthood (3)
p. 299: Change title of CDFR 2124 course from Introduction to Work with Young Children as follows:

2124. Interaction Techniques for Working with Young Children
p. 301: Revise CDFR course as follows:

5300. Families, Sexuality, and Gender Roles (3)(F) P: Senior standing; CDFR 1103; or consent of instructor. Biological, cognitive, social, emotional, and cultural influences on human sexuality and gender roles within the context of relationships and families.

p. 299: Unbank and revise CDFR course as follows:

2290. Theory and Practice in Family and Community Services (3)(S) P: CDFR 2280; CDFR majors only. Theories and applications of working within family and community agencies.
p. 299: Add new CDFR course as follows:

2280. Introduction to Child, Family, and Community Services (3)(F) P: CDFR 1103. Children and families from an ecological systems perspective. Emphasis given to both informal and formal sources of support.
p. 192: Revise catalog description for the BS in Family and Community Services to read as follows:

2. Core...........................................................................................................51 s.h.

CDFR 1103. Marriage and Family Relations (3)(F)(S)(SS)

CFDR 2280. Introduction to Child, Family, and Community Services (3) (F) [P: CFDR 1103]

CFDR 2290. Theory and Practice in Family And Community Services (3) (S) [P: CFDR major; CFDR 2280]

CFDR 2400. Introduction to Gerontology (3) (F) (S)

CFDR 3002. Child in the Family (3)(F)(SS)

CFDR 4001. Community Service Internship (8) (WI) (F)(S) [P: CFDR major; senior standing; consent of instructor]

CFDR 4303. Families and Cultural Diversity (3) (F) (S) [P: CFDR 1103]


CFDR 4366. Family Life Education (3) (S) [P: CFDR 1103]

CFDR 4410. Professional Seminar (1) (WI) (F)(S) [P: CFDR major; senior standing; consent of instructor]

NUHM 1000. Contemporary Nutrition (3) (F)(S)(SS)

Choose 9 s.h. CFDR electives

p. 299: Change prerequisite for CFDR 3150 from CFDR 2000 as follows:

P: CFDR 2000 or CFDR 2001

p. 300: Change prerequisite for CFDR 4321 from CFDR 3150 as follows:

P: CFDR 2000

p. 300: Change prerequisite for CFDR 4322 from CFDR 3150 as follows:

P: CFDR 2000

p. 300: Delete CFDR 4306 and CFDR 3002 as prerequisite for CFDR 4406 to read as follows:

P: 1103 and 3200

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School of Industry and Technology

Department of Construction Management

p. 306: Add new CMGT course as follows:

4505. Special Projects (1-3) (WI) (F) (S) (SS) P: Consent of department chair. Development and submittal of business and management documents that pertain to varied aspects of construction.

p. 306: Bank CMGT courses as follows:

3101. Architectural Plans and Analysis

3663. Mechanical and Electrical Construction

p.307: Delete banked CMGT courses as follows:

2064, 2065, 2662, 3062, 3063, 4508

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School of Music

p. 385: Revise MUSC courses as follows:

5707. Seminar: Topics and Problems of Piano Pedagogy (2) (F) C: MUSC 5727. Emphasis on teaching the intermediate level pre-college student, including psychology of the adolescent student, piano technique, keyboard skills, and working with transfer students.

5717. Advanced Piano Performance Problems (2) C: MUSC 5727. Preschool music, the adult beginner, teaching in group settings, and non-major and secondary college piano.

5727. Piano Pedagogy: Observation and Student Teaching (2). (F,S) 4 hours per week. May be repeated for credit. C: MUSC 5707 fall semester; MUSC 5717 spring semester. Supervised teaching and observation in the piano pedagogy program and/or through internship in an independent piano teaching studio.

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School of Nursing

p. 392: Delete NURS 3060.

p. 393: Delete NURS 3400, 3401, 3500, 3501, 3700, 3701, 3800, 3801.