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**GRADUATE COMMITTEE
RECOMMENDATION**

SR-94-95-(19)126(GR)

To approve the establishment of the Neuroscience Area of Emphasis within the Biomedical Sciences Graduate Program, as described in the attached proposal.

RATIONALE:

FACULTY SENATE PRESIDENT:

APPROVED BY SENATE: Bertram W Goss DATE: 11/18/94

DISAPPROVED BY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED: [Signature] DATE: 11/18/94

DISAPPROVED: _____ DATE: _____

COMMENTS:

Amended on the Senate Floor 11/17/94
page 2, "Implementation and Administration" paragraph 2.

September 21, 1994
Proposed
NEUROSCIENCE
AREA OF EMPHASIS
within the
BIOMEDICAL SCIENCES GRADUATE PROGRAM

SUMMARY STATEMENT

In light of the recent approved changes in the Biomedical Sciences curriculum by the MUSOM Graduate Studies Committee, faculty within the basic science departments at MUSOM would like to propose an integrated curriculum in neuroscience within the Biomedical Sciences Program. Establishment of an area of emphasis in neuroscience will strengthen and formalize the common research and education interests of faculty across departments in the Biomedical Sciences Program.

OBJECTIVES of a NEUROSCIENCE AREA OF EMPHASIS WITHIN THE BMS PROGRAM

1. Provide students with a broad base of knowledge and research experience in the field of neuroscience.
2. Attract graduate students to the BMS program by offering intensive interdisciplinary academic course work and research training in neuroscience.
3. Increase the likelihood of obtaining training grants and other extramural funding for neuroscience education and research training.
4. Strengthen the area of neuroscience by formalizing the interactions of BMS faculty members with a common interest in furthering the research and education of students in neuroscience.

JUSTIFICATION for a NEUROSCIENCE AREA OF EMPHASIS WITHIN THE BMS PROGRAM

1. The establishment of an area of emphasis in neuroscience within the BMS Program will provide a unique opportunity for students to obtain a graduate education in neuroscience based on an integrated curriculum from basic science disciplines. At present, this interdisciplinary training in neuroscience is not available within the state. Formal course work and laboratory research experiences will be combined to prepare the graduate student for a career in research, education, and service.
2. The development of integrated neuroscience courses will allow non-neuroscience graduate students in the BMS Program the opportunity to take the integrated courses to strengthen their knowledge and research skills in the area of neuroscience.

IMPLEMENTATION and ADMINISTRATION of a NEUROSCIENCE AREA OF EMPHASIS WITHIN THE BMS PROGRAM

1. The neuroscience area of emphasis will be implemented and administered by the Director of Graduate Studies under the direction of the Graduate Studies Committee at MUSOM and the MU graduate school.
2. The faculty in the neuroscience area of emphasis will elect a Coordinator of the neuroscience area of emphasis biennially by a majority vote of the participating faculty in the neuroscience area of emphasis within the BMS program. The Coordinator will be a tenured faculty member with graduate faculty status at Marshall University and will serve as an ex-officio, non-voting member of the Graduate Studies Committee at the School of Medicine. In this position, she or he will act as liaison between the faculty in the neuroscience area of emphasis, the departmental chairpersons and the Graduate Studies Committee in the areas of curriculum development, implementation and evaluation, student recruitment and development of extramural funding for the neuroscience area of emphasis.

3. Applications to the BMS graduate program from students who express an interest in the neuroscience area of emphasis will be referred to the Coordinator for review by interested faculty in the neuroscience area of emphasis. The Coordinator will then make a recommendation regarding acceptance into the BMS Program to the Graduate Studies Committee. Upon acceptance into the BMS program by the Graduate Studies Committee, the Coordinator, in consultation with the departmental chairperson and the faculty in the area of neuroscience emphasis, will assign each student an interim neuroscience advisor. The Coordinator will be responsible for ensuring that each graduate student in the neuroscience area of emphasis will have selected a permanent advisor and have the student's advisory committee formed by the end of the student's first year in the BMS Graduate Program.

4. All graduate students in the neuroscience area of emphasis will be expected to adhere to the guidelines of the BMS graduate program and successfully complete the Biomedical Sciences program requirements in the basic science department selected by the student as well as the neuroscience area of emphasis curriculum (see attached sheets).

5. Faculty willing to participate in the neuroscience area of emphasis within the BMS Graduate Program:

- Mitchell Berk, Ph.D. - Anatomy, Cell and Neurobiology Department
- Susan DeMesquita, Ph.D. - Physiology Department,
Neuroscience Coordinator 1993 - 1995
- Steve Fish, Ph.D.- Anatomy, Cell and Neurobiology Department
- Jim Fix, Ph.D.- Anatomy, Cell and Neurobiology Department
- Todd Green, Ph.D. - Physiology Department
- Larry Grover, Ph.D. - Physiology Department
- Bill Leidy, M.D., Ph.D. - Medicine Department
- Mark Simmons, Ph.D. - Pharmacology Department
- Ruu-Tong Wang, Ph.D.- Anatomy, Cell and Neurobiology Department
- Sasha Zill, Ph.D.- Anatomy, Cell and Neurobiology Department

attachments:

1. Neuroscience integrated curriculum for students in the departments of Anatomy, Cell and Neurobiology; Physiology and Pharmacology.

Biomedical Sciences Neuroscience Curriculum in Physiology

(Courses in **BOLD** are required)

YEAR ONE

FALL

1. Biochemistry BIC 620 (6 hr)
2. Cell & Molecular Bio BMS 600 (3 hr)
3. Biomed Sci Seminar BMS 680 (1 hr)
4. Recent Adv in Physio PHS 641 (1 hr)
5. Intro to Research BMS 685 (1-6 hrs)

SPRING

1. Neuroscience BMS 630 (5 hr)
2. Biomed Sci Seminar BMS 680 (1 hr)
- * 3. Neurophys Lit Review PHS 637 (1 hr)
4. Recent Adv in Physio PHS 641 (1 hr)
5. Mammalian Physiology PHS 629 (6 hrs)
6. Intro to Research BMS 685 (1-6 hrs)

Summer

1. Statistics EDF 517 (3 hr)
2. Intro to Research BMS 685 (2 hr)
- * 3. Neurophys Res TechPHS639(3hr)

YEAR TWO

FALL

1. Biomed Sci Seminar BMS 680 (1 hr)
2. Intro to Research BMS 685 (1-6 hrs)
3. Advanced Neurophys PHS 634 (2 hr)
4. Recent Adv in Physio PHS 641 (1 hr)
5. Physiology of Cell PHS 666 (3 hr)
6. Behav Pharmacology PMC 640 (3 hr)
7. Physiology of Sleep PHS 632 (1 hr)

SPRING

1. Biochem Basis NeuropharmPMC635(3 hr)
- * 2. Neurophys Lit Review PHS 637 (1 hr)
3. Biomed Sci Seminar BMS 680 (1 hr)
4. Recent Adv in Physio PHS 641 (1 hr)
5. Intro to Research BMS 685 (1-6 hrs)
6. Medical Pharmacology PMC 620 (6 hrs)
7. Molecular Biology Lab BMS 679 (2 hrs)

Summer

1. Intro to Research BMS 685 (8 hr)

YEAR THREE

FALL

M.S. Comprehensive Exam
Ph.D. Qualifying Exam

1. Thesis BMS 681 (1-9 hr)
2. Biomed Sci Seminar BMS 680 (1 hr)
3. Doctoral Research BMS 882 (1-15 hrs)

SPRING

- M.S. Thesis Defense
Ph.D. Dissertation Proposal Defense
- * 1. Neurophys Lit Review PHS 637 (1 hr)
 2. Biomed Sci Seminar BMS 680 (1 hr)
 3. Doctoral Research BMS 882 (1-15 hrs)

Summer

1. Doctoral Res BMS 882 (1-15 hrs)

YEAR FOUR - YEAR FIVE

FALL

1. Biomed Sci Seminar BMS 680 (1 hr)
2. Doctoral Research BMS 882 (1-15 hrs)

SPRING

- Ph.D. Dissertation Defense
- * 1. Neurophys Lit Review PHS 637 (1 hr)
 2. Doctoral Research BMS 882 (1-15 hrs)
 3. Biomed Sci Seminar BMS 680 (1 hr)

Summer

1. Doctoral Res BMS 882 (1-15 hrs)

* Courses to be submitted to Graduate School for approval in BMS curriculum.

September 23, 1994

Biomedical Sciences Neuroscience Curriculum in Pharmacology (Courses in **BOLD** are required)

YEAR ONE

FALL 11 credits

1. Biochemistry BIC 620 (6 hr)
2. Intro to Pharmacology PMC 610 (3 hr)
3. Biomed Sci Seminar BMS 680 (1 hr)
4. Pharmacology Rev PMC 615 (1 hr)
5. Intro to Research BMS 685 (1-6 hrs)

SPRING 13 credits

1. Neuroscience BMS 630 (5 hr)
2. Biomed Sci Seminar BMS 680 (1 hr)
- * 3. Neuropharm Lit Review PMC 637 (1 hr)
4. Mammalian Physiology PHS 629 (6 hr)
5. Intro to Research BMS 685 (1-6 hrs)

Summer 8 credits

1. Statistics EDF 517 (3 hr)
2. Intro to Research BMS 685 (2 hr)
- * 3. Neuropharm Res TechPMC639(3hr)

YEAR TWO

FALL

1. Biomed Sci Seminar BMS 680 (1 hr)
2. Cell & Molecular Bio BMS 600 (3 hr)
3. Pharmacology Rev PMC 615 (1 hr)
4. Behav Pharmacology PMC 640 (3 hr)
5. Intro to Research BMS 685 (1-6 hrs)

SPRING

1. Med Pharmacology PMC 620 (6 hr)
- * 2. Neuropharm Lit Review PMC 637 (1 hr)
3. Biomed Sci Seminar BMS 680 (1 hr)
4. Intro to Research BMS 685 (1-6 hrs)

Summer

1. Intro to Research BMS 685 (8 hr)

YEAR THREE

FALL

M.S. Comprehensive Exam
Ph.D. Qualifying Exam

1. Thesis BMS 681 (1-9 hr)
2. Biomed Sci Seminar BMS 680 (1 hr)
3. Doctoral Research BMS 882 (1-15 hrs)

SPRING

M.S. Thesis Defense
Ph.D. Dissertation Proposal Defense

- * 1. Neuropharm Lit Review PMC 637 (1 hr)
2. Biomed Sci Seminar BMS 680 (1 hr)
3. Doctoral Research BMS 882 (1-15 hrs)

Summer

1. Doctoral Res BMS 882 (1-15 hrs)

YEAR FOUR - YEAR FIVE

FALL

1. Biomed Sci Seminar BMS 680 (1 hr)
2. Doctoral Research BMS 882 (1-15 hrs)

SPRING

Ph.D. Dissertation Defense

- * 1. Neuropharm Lit Review PMC 637 (1 hr)
2. Doctoral Research BMS 882 (1-15 hrs)
3. Biomed Sci Seminar BMS 680 (1 hr)

Summer

1. Doctoral Res BMS 882 (1-15 hrs)

* Courses to be submitted to Graduate School for approval in BMS curriculum.

Biomedical Sciences Neuroscience Curriculum in Anatomy, Cell and Neurobiology

(Courses in **BOLD** are required)

YEAR ONE

FALL

1. Biochemistry BIC 620 (6 hr)
2. Cell & Molecular Bio BMS 600 (3 hr)
3. Biomed Sci Seminar BMS 680 (1 hr)
4. Gross Anatomy ACB 620 (8 hr)
5. Intro to Research BMS 685 (1-6 hrs)

SPRING

1. Neuroscience BMS 630 (5 hr)
2. Biomed Sci Seminar BMS 680 (1 hr)
- * 3. Neuroanat Lit Review ACB 637 (1 hr)
4. Microscopic Anatomy ACB 624 (4 hr)
5. Intro to Research BMS 685 (1-6 hrs)
6. Mammalian Physiology PHS 629 (6 hrs)

Summer

1. Statistics EDF 517 (3 hr)
2. Intro to Research BMS 685 (2 hr)
- * 3. Neuroanat Res Tech ACB639(3hr)

YEAR TWO

FALL

1. Biomed Sci Seminar BMS 680 (1 hr)
2. Intro to Research BMS 685 (1-6 hrs)
3. Advanced Neurophys PHS 634 (2 hr)
4. Behav Pharmacology PMC 640 (3 hr)
5. Physiology of Sleep PHS 632 (1 hr)
- * 6. Develop Neurobio ACB 634 (3 hr)

SPRING

1. Biochem Basis Neuropharm PMC635(3 hr)
- * 2. Neuroanat Lit Review ACB 637 (1 hr)
3. Biomed Sci Seminar BMS 680 (1 hr)
4. Intro to Research BMS 685 (1-6 hrs)
5. Current Topics Neurobio ACB660 (1-3 hrs)
6. Medical Pharmacology PMC 620 (6 hrs)
7. Molecular Biology Lab BMS 679 (2 hrs)

Summer

1. Intro to Research BMS 685 (8 hr)

YEAR THREE

FALL

- M.S. Comprehensive Exam
Ph.D. Qualifying Exam
1. Thesis BMS 681 (1-9 hr)

SPRING

- M.S. Thesis Defense
Ph.D. Dissertation Proposal Defense
- * 1. Neuroanat Lit Review ACB 637 (1 hr)
 2. Biomed Sci Seminar BMS 680 (1 hr)
 3. Doctoral Research BMS 882 (1-15 hrs)

Summer

1. Doctoral Res BMS 882 (1-15 hrs)

YEAR FOUR - YEAR FIVE

FALL

1. Biomed Sci Seminar BMS 680 (1 hr)
2. Doctoral Research BMS 882 (1-15 hrs)

SPRING

- Ph.D. Dissertation Defense
- * 1. Neuroanat Lit Review ACB 637 (1 hr)
 2. Doctoral Research BMS 882 (1-15 hrs)
 3. Biomed Sci Seminar BMS 680 (1 hr)

Summer

1. Doctoral Res BMS 882 (1-15 hrs)

* Courses to be submitted to Graduate School for approval in BMS curriculum.

September 23, 1994