Chair: Tracy Christofero

GC#1: Area of Emphasis

Request for Graduate Addition, Deletion, or Change of Area of Emphasis-Page 1

- 1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
- 2.E-mail one PDF copy without signatures to the Graduate Council Chair. If attachments included, please merge into a single file.
- 3. The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.

College: Medicine	Dept/Division: Biomedical Research		
Contact Person: Todd Green		Phone: x6-3531	
Action Requested Check action requested: Addition Deletic	on 🔲 Change		
Degree Program Ph.D.			
Area of Emphasis Cell Biology			
Effective Term/Year Fall 20 Spring 20	Summer 20 18		
Notifications			
Attach a copy of written notification regardi 1. Statement of Non-Duplication: If this area of emplement to the affected department/division and includepartment. 2. If your department/division requires additional farequired to secure these items.	hasis will be similar in title or content to de a copy with this packet as well as the	an existing area of emphasis, please send a e response received from the affected	
Signatures: if disapproved at any level, do not sign. I	Return to previous signer with recomm	nendation attached.	
Dept. Chair/Division Head		Date	
Registrar		Date	
College Curriculum Chair		Date	
College Dean		Date	
Graduate Council Chair		Date	
Provost/VP Academic Affairs		Date	
President		Date	

Form updated 2/2012 Page 1 of 4

Request for Graduate Addition, Deletion, or Change of Area of Emphasis-Page 2

1. Please provide a rationale for addition, deletion, change:
The name of the graduate program was changed from Biomedical Sciences (BMS) to Biomedical Research (BMR). This meant the previous areas of emphasis were deleted, and thus new ones have to added. And this new area of emphasis better represents the research interests of the BMR faculty.
 Please describe any changes in curriculum: Course number, title, credit hours. Note whether each course is required or optional. Enter NONE if no change.
ATTACHED
3. Additional Resource Requirements: If your program requires additional faculty, equipment or specialized materials to ADD or CHANGE this Area of Emphasis attach an estimate of the time and money required to secure these items. May attach separate page in needed NOTE: approval of this form does not imply approval for additional resources. Enter NOT APPLICABLE if not applicable. NONE
4. NON-DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the request and any response received from them. Enter NONE if not applicable. NONE
For catalog changes as a result of the above action, please fill in the following pages

Form updated 2/2012 Page 2 of 4

Request for Graduate Addition, Deletion, or Change of Area of Emphasis-Page 3

5. Current Catalog Description

Insert the *Current* Catalog Description and page number from the latest catalog for entries you would like to change. (May attach separate page if needed)

ATTACHED

6. Edits to the Current Description

Attach a PDF copy of the current catalog description prepared in MS Word with strikethroughs to mark proposed deletions and use the highlight function to indicate proposed new text.

7. New Catalog Description

Insert a 'clean' copy of your proposed description, i.e., no strikethroughs or highlighting included. This should be what you are proposing for the new description. (May attach separate page if needed)

ATTACHED

Form updated 2/2012 Page 3 of 4

Request for Graduate Addition, Deletion, or Change of Area of Emphasis-Page 4

Please insert in the text box below your Area of Emphasis change information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:

Area of Emphasis Title:

Credit Hours:

Type of Change Requested: (addition, deletion, change)

Term to Take Effect: (Fall, Spring, Summer/Year)

Rationale:

Department: Biomedical Research Area of Emphasis Title: Cell Biology, Ph.D.

Credit Hours:

Type of Change Requested: Addition Term to Take Effect: Summer 2018

Rationale: The name of the graduate program was changed from Biomedical Sciences (BMS) to Biomedical Research (BMR). This meant the previous areas of emphasis were deleted, and thus new ones have to added. And this new area of emphasis better represents the research interests of the BMR faculty.

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CELL BIOLOGY PHD CURRICULUM

Required Courses			
BMR 601	Introduction to Nucleic Acids and Proteins		
BMR 602	Introduction to Cell Structure and Metabolism	3 CR	
BMR 603	Regulation of Cell Function	2 CR	
BMR 604	Cellular Basis of Disease	1 CR	
BMR 617	Statistical Techniques for the Biomedical Scien	ices 3 CR	
BMR 644	Responsible Conduct of Research	1 CR	
BMR 660	Communication Skills for Biomedical Sciences	I 1 CR	
BMR 661	Communication Skills for Biomedical Sciences II		
BMR 680	Seminar (minimum 6 credits required)	1 CR	
BMR 785	Introduction to Research	3 CR	
BMR 882	Research	aximum 15 CR	
Students are required to take 5 additional hours from the following			
BMS 651	Cancer Biology	4 CR	
BMS 652	Cancer Biology Colloquium	1 CR	
BMS 665	CODRC Colloquium	1 CR	
PHS 666	Physiology of the Cell	3 CR	
PHS 667	Experimental Approaches to Physiology	4 CR	

CURRENT CATALOG DESCRIPTION

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School of Medicine

Dr. Joseph Shapiro, Dean http://musom.marshall.edu

BIOMEDICAL SCIENCES, M.S., Ph.D., M.D./Ph.D.

Areas of Emphasis

Cancer Biology

Cardiovascular Disease, Obesity, and Diabetes

Infectious and Immunological Diseases

Medical Sciences (M.S. only)

Neuroscience and Developmental Biology

Toxicology and Environmental Health Sciences

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BIOMEDICAL SCIENCES, M.S. (Cancer Biology; Cardiovascular Disease, Obesity, and Diabetes; Infectious and Immunological Diseases; Neuroscience and Developmental Biology; Toxicology and Environmental Health Sciences Areas of Emphasis)

BIOMEDICAL SCIENCES, M.S. (Medical Sciences Area of Emphasis)

CURRENT CATALOG DESCRIPTION WITH EDITS

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School of Medicine

Dr. Joseph Shapiro, Dean http://musom.marshall.edu

BIOMEDICAL SCIENCES, M.S., Ph.D., M.D./Ph.D. **Areas of Emphasis Cancer Biology** — Cardiovascular Disease, Obesity, and Diabetes —— Infectious and Immunological Diseases — Medical Sciences (M.S. only) Neuroscience and Developmental Biology Toxicology and Environmental Health Sciences BIOMEDICAL RESEARCH, M.S., Ph.D., M.D./Ph.D. **Areas of Emphasis** Cardiovascular Disease Cell Biology **Medical Sciences (M.S. only) Neurobiology and Addiction Obesity and Related Diseases Toxicology and Environmental Health**

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BIOMEDICAL SCIENCES, M.S. (Cancer Biology; Cardiovascular Disease, Obesity, and Diabetes; Infectious and Immunological Diseases; Neuroscience and Developmental Biology; Toxicology and Environmental Health Sciences Areas of Emphasis)

BIOMEDICAL RESEARCH, M.S. (Cardiovascular Disease; Cell Biology; Neurobiology and Addiction; Obesity and Related Diseases; Toxicology and Environmental Health)

BIOMEDICAL SCIENCES RESEARCH, M.S. (Medical Sciences Area of Emphasis)

NEW CATALOG DESCRIPTION

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School of Medicine

Dr. Joseph Shapiro, Dean http://musom.marshall.edu

BIOMEDICAL RESEARCH, M.S., Ph.D., M.D./Ph.D.

Areas of Emphasis

Cardiovascular Disease

Cell Biology

Medical Sciences (M.S. only)

Neurobiology and Addiction

Obesity and Related Diseases

Toxicology and Environmental Health

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BIOMEDICAL RESEARCH, M.S. (Cardiovascular Disease; Cell Biology; Neurobiology and Addiction; Obesity and Related Diseases; Toxicology and Environmental Health)

BIOMEDICAL RESEARCH, M.S. (Medical Sciences Area of Emphasis)