



MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Formerly University of Missouri-Rolla

Agenda

Campus Curricula Committee Meeting

August 17, 2010 Meeting

9:00 a.m. Room 117 Fulton Hall

Review of submitted EC forms:

EC 2252, Mechanical Engineering 301, Signal processing for Instrumentation and Control, effective Fall 2010.

EC 2259, Biological Sciences 401, Microbial Genetics, effective Fall 2010.

EC 2273, Biological Sciences 401, Principles of the Biomedical Sciences, effective Fall 2010.

EC 2274, Biological Sciences 401, Medical Interventions, effective Fall 2010.

EC 2275, Biological Sciences 401, Human Body Systems, effective Fall 2010.

EC 2276, Biological Sciences 401, Biomedical Innovation, effective Fall 2010.

EC File # 2252 - FS 2010 - ME - 301

Effective Year: 2010

Effective Term: Summer Fall Spring

Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings - January 1
Spring Semester Offerings - August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Mechanical and Aerospace Engineering

Discipline and Course Number: ME 301

Course Title: Signal Processing for Instrumentation and Control

Abbreviated Title (24 spaces or less): Signal Proc: Inst & Cntr

Instructor(s): Dr. D. Bristow

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: Math 204; ME 211 or permission of instructor for non-ME majors

Semester(s) previously taught: N/A

Brief Course Description: (40 words or less)

The course presents fundamental techniques for analysis and processing of experimental data and real-time signals. Continuous- and discrete-time development of signal spectra, Fourier Transform, convolution, filter design, and system identification. The emphasis is on practical problems that arise in instrumentation and control applications.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

- | | | |
|----|----|----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |

Department Chair: Robert Medina (Chair Signature) Date: 02/15/10

Discipline Specific Curricula Committee: Jerry R. Bayless (Chair signature) Date: 5-1-10

Curricula Committee: _____ (Chair Signature) Date: _____

EC File # 2259-FS2010-BioSci-4

Effective Year: 2010
Effective Term: Summer Fall Spring

Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings - January 1
Spring Semester Offerings - August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.*

Department: Biological Sciences

Discipline and Course Number: BioSc 401

Course Title: Microbial Genetics

Abbreviated Title (24 spaces or less):

Instructor(s): Dave Westenberg

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites: BioSc 221

Semester(s) previously taught: None

Brief Course Description: (40 words or less)

A study of the mechanisms of the control of gene expression, genetic modification and evolution of microorganism. The course will examine applications of the principles of microrbial genetics in genetic engineering and synthetic biology through analysis of the classic and current literature in the field. Students enrolled in this section as graduate students will be required to prepare additional presentations.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

- | | | |
|----|----|----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |

Department Chair: Robert S. ... Date: 3/12/10
(Chair Signature)

Discipline Specific Curricula Committee: _____ Date: _____
(Chair signature)

Curricula Committee: _____ Date: _____
(Chair Signature)

EC File # 2273-F32010-BioSci-4

Effective Year: 2010
Effective Term: Summer Fall Spring

Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.*

Department: Biological Sciences

Discipline and Course Number: Bio 401

Course Title: Principles of the Biomedical Sciences

Abbreviated Title (24 spaces or less): PBS - PLTW

Instructor(s): Robert S. Aronstam

Credit Hours: Lecture: 3 Lab: Total: 3

Prerequisites: secondary teaching certification

Semester(s) previously taught:

Brief Course Description: (40 words or less)

Teachers complete 80 hours of Project Lead the Way training for the Principles of Biomedical Sciences curriculum, including all projects, portfolios and exit evaluation.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

- | | | |
|----|----|----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |

Department Chair: Robert S. Aronstam (Chair Signature) Date: 6/7/10

Discipline Specific Curricula Committee: _____ (Chair signature) Date: _____

Curricula Committee: _____ (Chair Signature) Date: _____

Effective Year: 2010

Effective Term: Summer Fall Spring

EC File # 2274-FB2010-BioSci-46

Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.*

Department: Biological Sciences

Discipline and Course Number: Bio 401

Course Title: Medical Interventions

Abbreviated Title (24 spaces or less): MI - PLTW

Instructor(s): Robert S. Aronstam

Credit Hours: Lecture: 3 Lab: Total: 3

Prerequisites: secondary teaching certification

Semester(s) previously taught:

Brief Course Description: (40 words or less)

Teachers complete 80 hours of Project Lead the Way training for the Medical Interventions curriculum, including all projects, portfolios and exit evaluation.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

- | | | |
|----|----|----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |

Department Chair: Robert S. Aronstam (Chair Signature) Date: 6/7/10

Discipline Specific Curricula Committee: _____ (Chair signature) Date: _____

Curricula Committee: _____ (Chair Signature) Date: _____

Effective Year: 2010

Effective Term: Summer Fall Spring

EC File # 2275-F32010-BioSci-401

Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Biological Sciences

Discipline and Course Number: Bio 401

Course Title: Human Body Systems

Abbreviated Title (24 spaces or less): HBS - PLTW

Instructor(s): Robert S. Aronstam

Credit Hours: Lecture: 3 Lab: Total: 3

Prerequisites: secondary teaching certification

Semester(s) previously taught:

Brief Course Description: (40 words or less)

Teachers complete 80 hours of Project Lead the Way training for the Human Body Systems curriculum, including all projects, portfolios and exit evaluation.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

- | | | |
|----|----|----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |

Department Chair: Robert S. Aronstam Date: 6/7/10
(Chair Signature)

Discipline Specific Curricula Committee: _____ Date: _____
(Chair signature)

Curricula Committee: _____ Date: _____
(Chair Signature)

Effective Year: 2010

Effective Term: Summer Fall Spring

EC File # 2276-FS2010-BioSci-401

Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.*

Department: Biological Sciences

Discipline and Course Number: Bio 401

Course Title: Biomedical Innovation

Abbreviated Title (24 spaces or less): BI - PLTW

Instructor(s): Robert S. Aronstam

Credit Hours: Lecture: 3 Lab: Total: 3

Prerequisites: secondary teaching certification

Semester(s) previously taught:

Brief Course Description: (40 words or less)

Teachers complete 80 hours of Project Lead the Way training for the Biomedical Innovation curriculum, including all projects, portfolios and exit evaluation.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) 2) 3)

4) 5) 6)

Department Chair: Robert S. Aronstam Date: 6/7/10
(Chair Signature)

Discipline Specific Curricula Committee: _____ Date: _____
(Chair signature)

Curricula Committee: _____ Date: _____
(Chair Signature)