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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.

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Date: 2/26/2010 3:07:44 PM

Effective Year: 2010

Effective Term: Summer 🖂 🛮 Fall 🖾

Spring 🗆

EC File # 2252 - FS 2010- ME -301

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

Prereaulsites:

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: 1 1) | include initials of Dept. 2) | . Chair, if signature is not all 3) | eady included below. |
|-------------------------------------|---------------------------------|--|-----------------------|
| 4) | 5) | 6) | |
| Department Chair: | lant (| Med Sug Shair Signature) | Date: <u>02/15/10</u> |
| Discipline Specific Curricula (| Committee: Ju | Chair signature) | Date: <u>5-1-10</u> |
| Curricula Committee: | | | Date: |
| Cutticula Commission. | (0 | hair Signature) | |

(Revised 1/31/2008)

02/11/10

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EC File #2259-F52010-BioSci-4. Effective Year: 2010 Spring 🗌 Effective Term: Summer Fall 🗵

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

| nitial release of the Schedule of Classes are as follows: | | | | | |
|---|---|--|--|--|--|
| | Summer and Spring Seme | d Fall Semes ester Offerin | ter Offerings – Janı gs – August 1 | uary 1 | |
| An experimental | be submitted each s course that is requir ted on one form, or | red should b | e submitted on a CO | to exceed two offerings. C form. <i>Co-listed offerings</i> pline. | |
| Department: Biok | ogical Sciences | | | | |
| Discipline and Co | urse Number: BioSc | 401 | | | |
| Course Title: Micr | obial Genetics | | | | |
| Abbreviated Title | (24 spaces or less) |): | | | |
| Instructor(s): Da | ve Westenberg | | | • | |
| Credit Hours: | Lecture: 3 | Lab: | Total: | | |
| Prerequisit es: | BioSc 221 | | | | |
| Semester(s) prev | viously taught: None | | | | |
| A study of the mec microorganism. Th | ie course will examine | of gene expr applications of through ana | of the principles of mi lysis of the classic an | d current literature in the | |
| List all co-listed o 1) | courses: Include initia 2) | als of Dept. Cl | nair, if signature is no 3) | t already included below. | |
| 4) | 5) | | 6) | | |
| Department Chair: | Thats | Asas ta (Cha | air Signature) | Date: 3/12 //0 | |
| Discipline Specific (| Curricula Committee: | (Cha | ir signature) | Date: | |
| Curricula Committe | ee: | (Chai | ir Signature) | Date: | |
| | | | | | |

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Effective Year: 2010 Effective Term: Summer 📆

Fall 🖾

Spring 🗍

EC File # 2273-F52010-BioSci-4

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 experimental o | ourse that is require | ed should b | s to be offered, not to e submitted on a CC fo m the primary disciplii | rm. <i>Co-listed offerings</i> |
|----------------------------|--|----------------|--|--------------------------------|
| Department: Biolo | gical Sciences | | | |
| Discipline and Cou | ı rse Number: Bio 401 | L | | |
| Course Title: Princ | iples of the Biomedical | Sciences | | |
| Abbreviated Title | (24 spaces or less): | PBS - PLTW | | |
| Instructor(s): Rob | ert S. Aronstam | | | |
| Credit Hours: | Lecture: 3 | Lab: | Total: 3 | |
| Prerequisites: s | econdary teaching cert | tification | | |
| Semester(s) prev | iously táught: | | | |
| Teachers complete | ription: (40 words o 80 hours of Project Lea g all projects, protfolio | ad the Way t | raining for the Principles /aluation. | of Biomedical Sciences |
| List all co-listed c 1) | ourses: Ínclude initial 2) | ls of Dept. Cl | nair, if signature is not al 3) | ready included below. |
| 4) | 5) | | 6) | |
| Department Chair: | JElest SA | freestern (Cha | ir Signature) | Date: 6/7/16 |
| Discipline Specific C | curricula Committee: _ | (Cha | ir signature) | Date: |
| Curricula Committe | e; <u>**</u> | (Chai | ir Signature) | Date: |

(Revised 1/31/2008)

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Effective Year: 2010
Effective Term: Summer

Fall 🛛 🕛 Spring 🗒

EC File # 2274-F32010-BioSi-4

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 experimenta | l course that is requ | uired should be | s to be offered, not to e submitted on a CC f on the primary discipli | exceed two offerings. orm. <i>Co-listed offerings</i> ine. |
|--------------------------|---|-------------------|---|--|
| Department: Bio | logical Sciences | | | |
| Discipline and C | ourse Number: Bio | 401 | | |
| Course Title: Me | dical Interventions | | | |
| Abbreviated Titl | e (24 spaces or les | s): MI - PLTW | | |
| Instructor(s): Re | obert S. Aronstam | | | |
| Credit Hours: | Lecture: 3 | Lab: | Total: 3 | |
| Prerequisites: | secondary teaching | certification | | |
| Semester(s) pre | viously taught: | | | |
| Teachers complete | scription: (40 word e 80 hours of Project ing all projects, protf | Lead the Way tr | aining for the Medical Ir aluation. | nterventions |
| List all co-listed 1) | courses: Include ini 2) | tials of Dept. Ch | air, if signature is not a 3) | lready included below. |
| 4) | 5) | | 6) | |
| Department Chair | : Plans! | Was log (Cha | ir Signature) | Date: 6/7/16 |
| Discipline Specific | Curricula Committee | :(Chai | r signature) | Date: |
| Curricula Committ | ee: | (Chai | Signature) | Date: |

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Effective Year: 2010 Effective Term: Summer 💇 🛮 Fall 🖂 🗀

Spring 🛄

EC File #2215-F52010-BiaSci-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 experimental | be submitted each course that is requited on one form, o | ired should be | submitted on a C | t to exceed two offerings. C form. <i>Co-listed offerings</i> ipline. |
|--------------------------|---|-------------------|-------------------------------|---|
| Department: Biol | ogical Sciences | | | |
| Discipline and Co | ourse Number: Bio 4 | 01 | | |
| Course Title: Hur | nan Body Systems | | | |
| Abbreviated Title | e (24 spaces or less | :): HBS - PLTW | | |
| Instructor(s): Ro | bert S. Aronstam | | | |
| Credit Hours: | Lecture: 3 | Lab: | Total: 3 | |
| Prerequisites: | secondary teaching c | ertification | | |
| Semester(s) pre | viously taught: | | | |
| Teachers complete | eription: (40 words 80 hours of Project I ng all projects, protfo | ead the Way tr | | n Body Systems |
| List all co-listed 1) | courses: Include init 2) | īals of Dept. Ch | air, if signature is no 3) | ot already included below. |
| 4) | 5) | | 6) | |
| Department Chair: | J Sheet 5 | - Montin (Chai | r Signature) | Date: 6/7/10 |
| Discipline Specific | (a). Curricula Committee: | (Chai | r signature) | Date: |
| Curricula Committe | ee: | | | Date: |
| | | (Chair | Signature) | |

(Revised 1/31/2008)

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Effective Year: 2010 Effective Term: Summer M 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.

| | | | e submitted on a CC in the primary discipl | form. <i>Co-listed offerings</i> line. |
|--------------------------|---|------------------|--|---|
| Department: Bio | logical Sciences | | | |
| Discipline and Co | ourse Number: Bio 4 | 01 | | |
| Course Title: Bio | medical Innovation | • | | |
| Abbreviated Title | e (24 spaces or less |): BI - PLTW | | |
| Instructor(s): Ro | obert S. Aronstam | | | |
| Credit Hours: | Lecturé: 3 | Lab: | Total: 3 | |
| Prerequisites: | secondary teaching co | ertification | | · |
| Semester(s) pre | viously taught: | | | |
| Teachers complete | scription: (40 words e 80 hours of Project L ing all projects, protfo | ead the Way tr. | aining for the Blomedic aluation. | al Innovation |
| List all co-listed 1) | courses: Înclude înit 2) | ials of Dept. Ch | air, if signature is not a 3) | already included below. |
| 4) | 5) | | 6) | |
| Department Chair | Dbets A | Jon Gan (Chai | r Signature) | Date: 6/7/10 |
| Discipline Specific | Curricula Committee: | | r signature) | Date: |
| Curricula Committ | ee: <u> </u> | (Chair | Signature) | Date: |