Missouri State University—Curricular Proposal Program Change
Special Form for Identification of Public Affairs Capstone (PAC) Requirement

Biology
8-20-13
Department/School

Biology (BA)

Date

Title of Major and Degree

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—include course code, course number, title, and credit hours of each course.

See attachment

Answer all following questions related to the course(s) entered above.

1. Does the course(s) currently exist? Enter yes or no. [Yes]
   If no, a new course proposal form must be submitted and accompany this program change form.

2. If course(s) does exist, will a course change be needed (i.e., credit hours, description, etc.)? Enter yes or no. [No]
   If yes, a course change form must be submitted and accompany this program change form.

3. Is the course(s) currently required in the program for all students? Enter yes or no. [494—yes]
   If no, the program must be revised. Attach a separate sheet with 1) present catalog description; 2) revised catalog description; and 3) complete new catalog information specifying the PAC Experience plus any other program changes related to the PAC.

4. Will all sections of the course(s) satisfy the PAC Experience? Enter yes or no. [Yes]
   If no, specify which course(s) will be section-specific. Note: All service learning, study away, special topics, internships, and independent study courses will always be section-specific and will require special handling through the degree audit system.

5. Will a transfer equivalent of the course(s) satisfy the PAC Experience? Enter yes or no. [Yes]
   Additional notes regarding any potential transfer equivalents.

DEPARTMENT: Route according to ART VI, Sec 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).
If the program needs to go through more than one committee/council, forward one additional form for each additional council/committee marked.

___ College Council
(Send all undergraduate program changes through College Council as first step before forwarding either to PEC, CSEIP, or directly to Faculty Senate)

___ Professional Education Committee
(Considers all program changes affecting BS and MS in Education and Educational Specialist degrees)

___ Committee on General Education and Intercollegiate Programs
(Considers all general education and multi-college program changes)

___ Graduate Council
(Considers all graduate-level program changes)

Signature [Signature]
Department Head/School Director

Date 9-24-13

(Routing on Reverse Side)

FS Program Change - 9/10/2010
Biology (BA)—Public Affairs Capstone Experience

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—include course code, course number, title, and credit hours of each course.

BIO 300(1) Service Learning in Biology
BIO 355(4) Developmental Biology
BIO 369(4) General Ecology
BIO 370(4) Invertebrate Zoology
BIO 373(3) Principles of Wildlife Management
BIO 398(1) Laboratory Internship in Biology
BIO 399(1-3) Cooperative Education in Biology
BIO 485(1-3) Marine Conservation
BIO 494(1) Senior Seminar
BIO 498(3) Honors Senior Project
BIO 499(1-3) Special Topics in Biology
BIO 501(2) Natural History Museum Techniques
BIO 505(3) Human Nature
BIO 508(3) Environmental Microbiology
BIO 509(4) Stream Ecology
BIO 511(4) Immunology
BIO 512(3) Industrial Microbiology
BIO 520(3) Pathogenic Microbiology
BIO 527(1-4) Field Biology
BIO 539(2) Biogeography
BIO 547(3) Water Resources
BIO 561(2) Environmental Issues Education and Interpretation
BIO 573(3) Ornithology
BIO 574(2) Aquatic Entomology
BIO 575(3) Ichthyology
BIO 576(3) Herpetology
BIO 577(3) Mammalogy
BIO 578(4) Behavioral Ecology
BIO 579(4) Conservation Biology
BIO 584(3) Fish Ecology
BIO 589(3) Game Management
PRESENT CATALOG DESCRIPTION

Biology (Non-Comprehensive) (BA)

Bachelor of Arts

1. General Education Requirements - see General Education Program and Requirements section of catalog
2. Major Requirements
   1. BIO 121(4), 122(4), 235(4), 310(5) or 320(4), 369(4), 494(1), 550(3)
   2. Select elective courses in biology to total a minimum of 32 hours and include at least 12 hours of 300 level or higher courses. Electives may be selected from one of the following emphases. Advisors can assist students to select electives to emphasize areas that best meet their interest and career goals. Popular areas of emphasis include pre-health studies (pre-medical, pre-veterinary, pre-physical therapy, etc.), microbiology, cell/molecular biology, environmental/conservation biology, and zoology, but other areas of emphasis are also possible.
   3. Related Requirements: CHM 200(5) or 342(5) and 343(5) or 344(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)
3. Minor Required (or second major)
4. Specific Requirements for Bachelor of Arts Degree - see Specific Bachelor of Arts Degree Requirements section of catalog
5. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

REVISED CATALOG DESCRIPTION

Biology (Non-Comprehensive) (BA)

Bachelor of Arts

1. General Education Requirements - see General Education Program and Requirements section of catalog
2. Major Requirements
   1. BIO 121(4), 122(4), 235(4), 310(5) or 320(4), 369(4), 494(1), 550(3)
   2. Select elective courses in biology to total a minimum of 32 hours and include at least 12 hours of 300 level or higher courses. Electives may be selected from one of the following emphases. Advisors can assist students to select electives to emphasize areas that best meet their interest and career goals. Popular areas of emphasis include pre-health studies (pre-medical, pre-veterinary, pre-physical therapy, etc.), microbiology, cell/molecular biology, environmental/conservation biology, and zoology, but other areas of emphasis are also possible.
   3. Related Requirements: CHM 200(5) or 342(5) and 343(5) or 344(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)
3. Minor Required (or second major)
4. Specific Requirements for Bachelor of Arts Degree - see Specific Bachelor of Arts Degree Requirements section of catalog
5. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

COMPLETE NEW CATALOG INFORMATION

Missouri State University—Curricular Proposal Program Change
Special Form for Identification of Public Affairs Capstone (PAC) Requirement

Biology

9-20-13

Date

Biology (BS)

Title of Major and Degree

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—include course code, course number, title, and credit hours of each course.

See attachment

Answer all following questions related to the course(s) entered above.

1. Does the course(s) currently exist? Enter yes or no. Yes

If no, a new course proposal form must be submitted and accompany this program change form.

2. If course(s) does exist, will a course change be needed (i.e., credit hours, description, etc.)? Enter yes or no. No

If yes, a course change form must be submitted and accompany this program change form.

3. Is the course(s) currently required in the program for all students? Enter yes or no. 484—Yes

If no, the program must be revised. Attach a separate sheet with 1) present catalog description; 2) revised catalog description; and 3) complete new catalog information specifying the PAC Experience plus any other program changes related to the PAC.

4. Will all sections of the course(s) satisfy the PAC Experience? Enter yes or no. Yes

If no, specify which course(s) will be section-specific. Note: All service learning, study away, special topics, internships, and independent study courses will always be section-specific and will require special handling through the degree audit system.

5. Will a transfer equivalent of the course(s) satisfy the PAC Experience? Enter yes or no. Yes

Additional notes regarding any potential transfer equivalents.

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).
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☐ Professional Education Committee

☐ Committee on General Education and Intercollegiate Programs

☐ Graduate Council

(Send all undergraduate program changes through College Council as first step before forwarding either to PEC, CGEIP, or directly to Faculty Senate)

(Considers all program changes affecting BS and MS in Education and Educational Specialist degrees)

(Considers all general education and multi-college program changes)

(Considers all graduate-level program changes)

Signature ____________________________

Date 9-24-13

(Routing on Reverse Side)
Biology (BS)—Public Affairs Capstone Experience

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—
include course code, course number, title, and credit hours of each course.

BIO 300(1) Service Learning in Biology
BIO 355(4) Developmental Biology
BIO 369(4) General Ecology
BIO 370(4) Invertebrate Zoology
BIO 373(3) Principles of Wildlife Management
BIO 398(1) Laboratory Internship in Biology
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BIO 574(2) Aquatic Entomology
BIO 575(3) Ichthyology
BIO 576(3) Herpetology
BIO 577(3) Mammalogy
BIO 578(4) Behavioral Ecology
BIO 579(4) Conservation Biology
BIO 584(3) Fish Ecology
BIO 589(3) Game Management
PRESENT CATALOG DESCRIPTION

Biology (Non-Comprehensive) (BS)
Bachelor of Science

1. General Education Requirements - see General Education Program and Requirements section of catalog
2. Major Requirements
   1. BIO 121(4), 122(4), 235(4), 310(5) or 320(4), 369(4), 494(1), 550(3)
   2. Select elective courses in biology to total a minimum of 36 hours and include at least 12 hours of 300-level or higher courses. Advisors can assist students to select electives to emphasize areas that best meet their interest and career goals. Popular areas of emphasis include pre-health studies (pre-medical, pre-veterinary, pre-physical therapy, etc.), microbiology, cell/molecular biology, environmental/conservation biology, and zoology, but other areas of emphasis are also possible.
   3. Related Requirements: CHM 200(5) or 342(5) and 343(5) or 344(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)
3. Minor Required (or second major)
4. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

REVISED CATALOG DESCRIPTION

Biology (Non-Comprehensive) (BS)
Bachelor of Science

1. General Education Requirements - see General Education Program and Requirements section of catalog
2. Major Requirements
   1. BIO 121(4), 122(4), 235(4), 310(5) or 320(4), 369(4), 494(1), 550(3)
   2. Select elective courses in biology to total a minimum of 36 hours and include at least 12 hours of 300-level or higher courses. Advisors can assist students to select electives to emphasize areas that best meet their interest and career goals. Popular areas of emphasis include pre-health studies (pre-medical, pre-veterinary, pre-physical therapy, etc.), microbiology, cell/molecular biology, environmental/conservation biology, and zoology, but other areas of emphasis are also possible.
   3. Related Requirements: CHM 200(5) or 342(5) and 343(5) or 344(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)
3. Minor Required (or second major)
4. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

COMPLETE NEW CATALOG INFORMATION

Missouri State University—Curricular Proposal Program Change
Special Form for Identification of Public Affairs Capstone (PAC) Requirement

Biology

Date 9-20-13

Department/School

Biology (Comprehensive) (BS)

Title of Major and Degree

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—include course code, course number, title, and credit hours of each course.

See attachment

Answer all following questions related to the course(s) entered above.

1. Does the course(s) currently exist? Enter yes or no. Yes

If no, a new course proposal form must be submitted and accompany this program change form.

2. If course(s) does exist, will a course change be needed (i.e., credit hours, description, etc.)? Enter yes or no. No

If yes, a course change form must be submitted and accompany this program change form.

3. Is the course(s) currently required in the program for all students? Enter yes or no. 404-yes

If no, the program must be revised. Attach a separate sheet with 1) present catalog description; 2) revised catalog description; and 3) complete new catalog information specifying the PAC Experience plus any other program changes related to the PAC.

4. Will all sections of the course(s) satisfy the PAC Experience? Enter yes or no. Yes

If no, specify which course(s) will be section-specific. Note: All service learning, study away, special topics, internships, and independent study courses will always be section-specific and will require special handling through the degree audit system.

5. Will a transfer equivalent of the course(s) satisfy the PAC Experience? Enter yes or no. Yes

Additional notes regarding any potential transfer equivalents.

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).

If the program needs to go through more than one committee/council, forward one additional form for each additional council/committee marked.

☑ College Council
☐ Professional Education Committee
☐ Committee on General Education and Intercollegiate Programs

☐ Graduate Council (Considers all graduate-level program changes)

Signature: [Signature]

Date: 9-24-13

(Routing on Reverse Side)
Biology (Comprehensive) (BS)—Public Affairs Capstone Experience

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—
include course code, course number, title, and credit hours of each course.

BIO 300(1) Service Learning in Biology
BIO 355(4) Developmental Biology
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BIO 574(2) Aquatic Entomology
BIO 575(3) Ichthyology
BIO 576(3) Herpetology
BIO 577(3) Mammalogy
BIO 578(4) Behavioral Ecology
BIO 579(4) Conservation Biology
BIO 584(3) Fish Ecology
BIO 589(3) Game Management
PRESENT CATALOG DESCRIPTION

Biology (Comprehensive) (BS)
Bachelor of Science

1. General Education Requirements - see General Education Program and Requirements section of catalog

2. Major Requirements (37-46 hours)
   1. BIO 121(4), 122(4), 231(4), 494(1), 550(3)
   2. PHY 123(4) and 124(4) or PHY 203(5) and 204(5)
   3. MTH 138(3) or 181(3), or eligibility for MTH 261 on mathematics placement test
   4. BIO 310(5) or 320(4) or 361(4) or 444(4); consult options below before selecting course
   5. CHM 105(3) or CHM 160(4) and 161(1); consult options below before selecting course
   6. CHM 200(3) or 302(5) or 342(5); consult options below before selecting course
   7. Complete requirements in one of the following options*: Note: With approval of advisor, up to 3 hours of the following can be substituted for one of the BIO courses listed in any option: BIO 300, 399, 499, or 597.

   a. Environmental Biology and Evolution (33-38 hours)
      1. Required courses: BIO 369(4), 515(3)
      2. Complete courses in biodiversity and evolution totaling at least 3 hours from the following: BIO 334(3), 339(2), 370(4), 371(3), 389(5), 530(3), 571(4), 572(3), 574(2), 575(3), 576(3), 577(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 534(2), 535(1), 555(3), 566(3), 587(3), 588(3)
      3. Complete courses in population biology totaling at least 3 hours from the following: BIO 436(4), 532(3), 540(4), 560(3), 563(3), 567(4), 578(4), 584(3), 589(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 557(2), 558(2)
      4. Complete courses in community/ecosystem biology totaling at least 3 hours from the following: BIO 373(3), 485(1-3), 508(3), 509(3), 533(3), 539(2), 547(3), 562(4), 579(4); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 537(2), 538(2), 565(3), 566(2)

      5. Students must take at least one biology course with a substantial field component. A course used to satisfy this requirement also may be counted toward the biodiversity, population biology, and community/ecosystem biology concentration areas described above. Complete one of the following: BIO 334(3), 339(2), 370(4), 436(4), 502(3), 527(1-4), 562(3), 574(2), 575(3), 576(3), 577(3), any biology course taught at the Gulf Coast Research Laboratory, any biology course taught at the Bull Shouls Field station or another field station (with the approval of your advisor)

      6. Complete 0-7 hours of elective BIO courses at the level of 300 or higher to total a minimum of 43 hours in biology

      7. Complete at least one of the following related requirements in Mathematics, Statistics, or Computer programming: MTH 261(5) or 287(3) or 546(3) or 547(3) or CSC 125(4) or CSC 130(3) or PSY 527(3)


      9. Complete one of the following related science courses: AGN 215(3), ANT 375(3), CHM 260(3) or 460(3); GLG 171(3), GRY 351(3)

     10. Complete one of the following related social science courses: ECO 540(3), LAW 357(3), PHI 302(3), PLS 555(3), PSY 379(3)

   b. Microbiology and Biotechnology (33-42 hours)
      1. Required courses: BIO 310(5), 320(4)
      2. Complete 21 additional hours in BIO courses with a minimum of 18 hours from the following: BIO 355(4), 508(3), 511(4), 512(3), 515(3), 517(4), 518(2),
3. **Wildlife Biology** (30-47 hours)
   1. Required courses: BIO 432(4) or 261(4), 369(4)
   2. Complete two courses in plant biology from: BIO 334(3), 339(2), 530(3), 544(4)
   4. Complete a minimum of 5 hours in management from: BIO 373(3), 485(1-3), 509(3), 532(3), 562(4), 589(3)
   5. Complete two courses in ecology and evolution from: BIO 416(4), 515(3), 539(2), 563(3), 567(4), 578(4), 579(4), 584(3)
   6. Complete one course in human dimensions from the following: AGN 335(3), BIO 547(3), CRM 210(3), ECO 540(3), GRY 108(3), GRY 351(2), PHI 202(3), PLS 555(3), LAW 337(3)
   7. Complete one course in earth/environmental science: AGN 215(3), CHM 260(3), GLG 110(4), GRY 142(4)

3. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

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**REVISED CATALOG DESCRIPTION**

**Biology (Comprehensive) (BS)**

Bachelor of Science

1. General Education Requirements - see General Education Program and Requirements section of catalog

2. Major Requirements (37-46 hours)
   1. BIO 121(4), 122(4), 235(4), 494(1), 550(3)
   2. PHY 123(4) and 124(4) or PHY 203(5) and 204(5)
   3. MTH 138(5) or 181(3), or eligibility for MTH 261 on mathematics placement test
   4. BIO 310(5) or 320(4) or 361(4) or 544(4); consult options below before selecting course
   5. CHM 105(5) or CHM 160(4) and 161(1); consult options below before selecting course
   6. CHM 200(5) or 202(5) or 342(5); consult options below before selecting course
   8. Complete requirements in one of the following options*: Note: With approval of advisor, up to 3 hours of the following can be substituted for one of the BIO courses listed in any option: BIO 300, 399, 499, or 597.
      1. **Environmental Biology and Evolution** (33-38 hours)
         1. Required courses: BIO 369(4), 515(3)
         2. Complete courses in biodiversity and evolution totaling at least 3 hours from the following: BIO 334(3), 339(2), 370(4), 371(3), 380(5), 530(3), 571(4), 573(3), 574(2), 576(3), 577(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 534(2), 535(1), 555(3), 556(3), 587(3), 588(3)
         3. Complete courses in population biology totaling at least 3 hours from the following: BIO 436(4), 532(3), 540(4), 560(3), 563(3), 578(4), 584(3), 589(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 557(2), 558(2)
4. Complete courses in community/ecosystem biology totaling at least 3 hours from the following: BIO 373(3), 485(1-3), 508(3), 509(3), 533(3), 539(2), 547(3), 562(4), 579(4); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 537(2), 538(2), 565(3), 566(2)
5. Students must take at least one biology course with a substantial field component. A course used to satisfy this requirement also may be counted toward the biodiversity, population biology, and community/ecosystem biology concentration areas described above. Complete one of the following: BIO 334(3), 339(2), 370(4), 436(4), 509(3), 527(1-4), 562(3), 574(2), 575(3), 576(3), 577(3), any biology course taught at the Gulf Coast Research Laboratory, any biology course taught at the Bull Shoals Field station or another field station (with the approval of your advisor)
6. Complete 0-7 hours of elective BIO courses at the level of 300 or higher to total a minimum of 43 hours in biology
7. Complete at least one of the following related requirements in Mathematics, Statistics, or Computer Programming: MTH 261(3) or 287(3) or 546(3) or 547(3) or CSC 125(4) or CSC 130(3) or PSY 522(3)
9. Complete one of the following related science courses: AGN 215(3), ANT 575(3); CHM 260(3) or 460(3); GLG 171(3), GRY 55(1)
10. Complete one of the following related social science courses: BCO 540(3), LAW 537(3), PHI 302(3), PLS 555(3), PSY 379(3)

2. Microbiology and Biotechnology (33-42 hours)
   1. Required courses: BIO 310(5), 320(4)
   2. Complete 21 additional hours in BIO courses with a minimum of 18 hours from the following: BIO 355(4), 508(3), 511(4), 512(3), 515(3), 517(4), 518(2), 520(3), 530(3), 540(4); BMS 524(3) may be substituted for one of these courses; CHM 302(5) or 502(4) or 505(4) may be substituted for one of these courses
   3. Related requirements in Chemistry: CHM 160(4), 161(1), 170(3), 171(1); CHM 200(5), or CHM 342(5) and 343(5), or CHM 342(5) and 344(3); CHM 352(3), or CHM 452(2) and 552(3)

3. Wildlife Biology (30-47 hours)
   1. Required courses: BIO 320(4) or 361(4), 369(4)
   2. Complete two courses in plant biology from: BIO 334(3), 339(2), 520(3), 544(4)
   4. Complete a minimum of 5 hours in management from: BIO 372(3), 485(1-3), 509(3), 532(3), 562(4), 589(3)
   5. Complete two courses in ecology and evolution from: BIO 436(4), 515(3), 529(2), 563(3), 567(4), 578(4), 579(4), 584(3)
   6. Complete one course in human dimensions from the following: AGN 335(3), BIO 547(3), CRM 210(3), ECO 540(3), GRY 108(3), GRY 351(2), PHI 302(3), PLS 555(3), LAW 577(3)
   7. Complete one course in earth/environmental science: AGN 215(3), CHM 260(3), GLG 110(4), GRY 142(4)

3. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

COMPLETE NEW CATALOG INFORMATION

Missouri State University—Curricular Proposal Program Change  
Special Form for Identification of Public Affairs Capstone (PAC) Requirement

<table>
<thead>
<tr>
<th>Biology</th>
<th>9-20-13</th>
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<tbody>
<tr>
<td>Department/School</td>
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<tr>
<td>Biology Education (BSEd)</td>
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<td>Date</td>
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<td>Title of Major and Degree</td>
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List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—include course code, course number, title, and credit hours of each course.


**Answer all following questions related to the course(s) entered above.**

1. Does the course(s) currently exist? Enter yes or no.  
   Yes [ ] No [ ]
   If no, a new course proposal form must be submitted and accompany this program change form.

2. If course(s) does exist, will a course change be needed (i.e., credit hours, description, etc.)? Enter yes or no.  
   Yes [ ] No [ ]
   If yes, a course change form must be submitted and accompany this program change form.

3. Is the course(s) currently required in the program for all students? Enter yes or no.  
   Yes [ ] No [ ]
   If no, the program must be revised. Attach a separate sheet with 1) present catalog description; 2) revised catalog description; and 3) complete new catalog information specifying the PAC Experience plus any other program changes related to the PAC.

4. Will all sections of the course(s) satisfy the PAC Experience? Enter yes or no.  
   Yes [ ]
   If no, specify which course(s) will be section-specific. Note: All service learning, study away, special topics, internships, and independent study courses will always be section-specific and will require special handling through the degree audit system.

5. Will a transfer equivalent of the course(s) satisfy the PAC Experience? Enter yes or no.  
   Yes [ ]

**Additional notes regarding any potential transfer equivalents.**

**DEPARTMENT:** Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).

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∥ Professional Education Committee

∥ Committee on General Education and Intercollegiate Programs

∥ Graduate Council

Signature: [Signature]  
Department Head/School Director: [Name]  
Date: 9-24-13

(Routing on Reverse Side)  
FS Program Change - 9/10/2010
PRESENT CATALOG DESCRIPTION

Biology Education
Bachelor of Science in Education
(Certifiable grades 9-12)

1. General Education Requirements - see General Education Program and Requirements section of catalog
   The following required courses can be used to meet both General Education and Major Requirements: BIO 121(4); MTH 135(3) or 181(3) or 138(5) or 261(5) or 287(3); CHM 105(5) or 160(4) or GLG 110(4) or GRY 135(4) or GLG 171(4) or PHY 100(4) or PHY 123(4)

2. Major Requirements
   1. Core (32 hours): BIO 121(4), 122(4), 215(2), 235(4), 310(5), 361(4), 369(4), 515(3); Select elective courses in biology, 300 level or higher, to total a minimum of 32 hours.
   2. Related Requirements (6-9 hours): SCI 505(3); MTH 135(3) and MTH 181(3), or MTH 138(5) or 261(3) or 287(3); Note: MTH 130 cannot be substituted for MTH 135
   3. Complete the requirements in one of the following grades 9-12 certification areas:
      1. Categorical Science (13-21 hours): CHM 105(5), or (CHM 160(4) and 161(1) and 170(3) and 171(1)); PHY 100(4), or PHY 123(4) and 124(4); GLG 110(4) or GRY 135(4) or GLG 171(4)
      2. Unified Science (25 hours): CHM 160(4), 170(3), 171(1); PHY 123(4), 124(4); GLG 110(4); GRY 135(4)

3. Professional Education Courses (37 hours)
   1. SCI 214(1), 314(3), 414(3), 493(6), 494(6)
   2. Professional Education Required Core and Competencies - see Teacher Certification, Teacher Education Program and Secondary Education Requirements section of catalog

4. This program also requires compliance with the Teacher Education Program requirements for eligibility to enroll in Professional Education courses; admission to and continuation in the Teacher Education Program; approval for supervised teaching; and recommendation for certification; as well as the requirements for Secondary Education. Refer to the Teacher Education Program section of the catalog for requirements.

5. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

6. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.75 GPA on all course work attempted at all colleges attended; at least a 3.00 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 3.00 GPA in any additional certificate subject area; at least a 3.00 GPA in the professional education courses which includes all courses listed under C; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

REVISED CATALOG DESCRIPTION

Biology Education
Bachelor of Science in Education
(Certifiable grades 9-12)

1. General Education Requirements - see General Education Program and Requirements section of catalog
   The following required courses can be used to meet both General Education and Major Requirements: BIO 121(4); MTH 135(3) or 181(3) or 138(5) or 261(5) or 287(3); CHM 105(5) or 160(4) or GLG 110(4) or GRY 135(4) or GLG 171(4) or PHY 100(4) or PHY 123(4)

2. Major Requirements
1. Core (32 hours): BIO 121(4), 122(4), 215(2), 235(4), 310(5), 361(4), 369(4), 515(3); Select elective courses in biology, 300 level or higher, to total a minimum of 32 hours.

2. Related Requirements (6-9 hours): SCI 505(3); MTH 135(3) and MTH 181(3), or MTH 138(5) or 261(5) or 287(3); Note: MTH 130 cannot be substituted for MTH 135

3. Complete the requirements in one of the following grades 9-12 certification areas:

   1. Categorical Science (13-21 hours): CHM 105(5), or (CHM 160(4) and 161(1) and 170(3) and 171(1)); PHY 100(4), or PHY 123(4) and 124(4); GLG 110(4) or GRY 135(4) or GLG 171(4)

   2. Unified Science (25 hours): CHM 160(4), 170(3), 171(1); PHY 123(4), 124(4); GLG 110(4); GRY 135(4)

4. Professional Education Courses (37 hours)
   1. SCI 214(1), 314(3), 414(3), 493(6), 494(6)
   2. Professional Education Required Core and Competencies - see Teacher Certification, Teacher Education Program and Secondary Education Requirements section of catalog


6. This program also requires compliance with the Teacher Education Program requirements for eligibility to enroll in Professional Education courses; admission to and continuance in the Teacher Education Program; approval for supervised teaching; and recommendation for certification; as well as the requirements for Secondary Education. Refer to the Teacher Education Program section of the catalog for requirements.

7. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

in order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.75 GPA on all course work attempted at all colleges attended; at least a 3.00 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 3.00 GPA in any additional certificate subject area; at least a 3.00 GPA in the professional education courses which includes all courses listed under C; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

COMPLETE NEW CATALOG INFORMATION

Missouri State University—Curricular Proposal Program Change
Special Form for Identification of Public Affairs Capstone (PAC) Requirement

Biology

Department/School

Wildlife Conservation and Management (BS)

Date

Title of Major and Degree

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—include course code, course number, title, and credit hours of each course.

See attachment

Answer all following questions related to the course(s) entered above.

1. Does the course(s) currently exist? Enter yes or no. Yes
   If no, a new course proposal form must be submitted and accompany this program change form.

2. If course(s) does exist, will a course change be needed (i.e., credit hours, description, etc.)? Enter yes or no. No
   If yes, a course change form must be submitted and accompany this program change form.

3. Is the course(s) currently required in the program for all students? Enter yes or no. Yes
   If no, the program must be revised. Attach a separate sheet with 1) present catalog description; 2) revised catalog description; and 3) complete new catalog information specifying the PAC Experience plus any other program changes related to the PAC.

4. Will all sections of the course(s) satisfy the PAC Experience? Enter yes or no. Yes
   If no, specify which course(s) will be section-specific. Note: All service learning, study away, special topics, internships, and independent study courses will always be section-specific and will require special handling through the degree audit system.

5. Will a transfer equivalent of the course(s) satisfy the PAC Experience? Enter yes or no. Yes
   Additional notes regarding any potential transfer equivalents.

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If the program needs to go through more than one committee/council, forward one additional form for each additional council/committee marked.

- College Council

- Professional Education Committee

- Committee on General Education and Intercollegiate Programs

- Graduate Council

Signature [Signature]

Date 9-24-13

(Routing on Reverse Side)
Biology (Comprehensive) (Wildlife Conservation and Management)—Public Affairs Capstone Experience

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—include course code, course number, title, and credit hours of each course.

BIO 300(1) Service Learning in Biology
BIO 355(4) Developmental Biology
BIO 369(4) General Ecology
BIO 370(4) Invertebrate Zoology
BIO 373(3) Principles of Wildlife Management
BIO 398(1) Laboratory Internship in Biology
BIO 399(1-3) Cooperative Education in Biology
BIO 485(1-3) Marine Conservation
BIO 494(1) Senior Seminar
BIO 498(3) Honors Senior Project
BIO 499(1-3) Special Topics in Biology
BIO 501(2) Natural History Museum Techniques
BIO 505(3) Human Nature
BIO 508(3) Environmental Microbiology
BIO 509(4) Stream Ecology
BIO 511(4) Immunology
BIO 512(3) Industrial Microbiology
BIO 520(3) Pathogenic Microbiology
BIO 527(1-4) Field Biology
BIO 539(2) Biogeography
BIO 547(3) Water Resources
BIO 561(2) Environmental Issues Education and Interpretation
BIO 573(3) Ornithology
BIO 574(2) Aquatic Entomology
BIO 575(3) Ichthyology
BIO 576(3) Herpetology
BIO 577(3) Mammalogy
BIO 578(4) Behavioral Ecology
BIO 579(4) Conservation Biology
BIO 584(3) Fish Ecology
BIO 589(3) Game Management
PRESENT CATALOG DESCRIPTION

Wildlife Conservation and Management (Comprehensive)

Bachelor of Science

This major is offered in cooperation with the Darr School of Agriculture.

1. General Education Requirements - see General Education Program and Requirements section of catalog
   Specific General Education Requirements: BIO 121(4); CHM 105(5) or 160(4); GLG 110(4); GRY 100(3); MTH 135(3) or 138(5)

2. Major Requirements
   1. Agriculture Requirements:
      1. AGN 115(3) or AGR 103(3); AGN 143(3); 215(3), 335(3); AGR 365(3) or 375(3); AGR 383(3); AGR 490(1)
      2. Select two courses (4-6 hours) from: AGR 354(2); AGN 333(2); AGR 333(3), 485(3), 583(3)

   2. Biology Requirements:
      1. BIO 121(4), 122(4), 334(3), 339(2), 373(3)
      2. Select one course from: BIO 369(4), 436(4), 562(4)
      3. Select two courses from: BIO 573(3), 575(3), 577(3)

3. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog
REVISED CATALOG DESCRIPTION

Wildlife Conservation and Management (Comprehensive)

Bachelor of Science

This major is offered in cooperation with the Darr School of Agriculture.

1. General Education Requirements - see General Education Program and Requirements section of catalog
   Specific General Education Requirements: BIO 121(4), CHM 105(5) or 160(4); GLG 110(4); GRY 100(3); MTH 135(3) or 138(5)

2. Major Requirements
   1. Agriculture Requirements:
      1. AGN 115(3) or AGP 103(3); AGN 143(3), 215(3), 335(3); AGP 365(3) or 375(3); AGR 383(3); AGR 490(1)
      2. Select two courses (4-6 hours) from: AGR 354(2); AGN 351(2); AGP 333(3), 485(3), 583(3)

   2. Biology Requirements:
      1. BIO 121(4), 122(4), 334(3), 339(2), 373(3)
      2. Select one course from: BIO 369(4), 436(4), 562(4)
      3. Select two courses from: BIO 573(3), 575(3), 577(3)


3. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

COMPLETE NEW CATALOG INFORMATION

Missouri State University
Curricular Proposal Course Change or Deletion

Department: Biology

Present Catalog Description
(Cut and paste from web catalog or use most recent description.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 310 - Microbiology</td>
<td>Prerequisite: BIO 235 or BMS 230 or BMS 231; and CHM 105 or CHM 160. Fundamental principles of microbiology; development of sound laboratory skills. A student who takes BIO 210 and BIO 310 receives credit toward graduation only for BIO 310. Supplemental course fee. S(3-4) F,S</td>
</tr>
</tbody>
</table>

Revised Catalog Description
(Cut and paste description again, strikethrough all deletions, and insert and bold new information.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 310 - Microbiology</td>
<td>Prerequisite: “C-“ grade or better in BIO 235 or BMS 230 or BMS 231; and &quot;C-“ grade or better in CHM 105 or CHM 160. Fundamental principles of microbiology; development of sound laboratory skills. A student who takes BIO 210 and BIO 310 receives credit toward graduation only for BIO 310. Supplemental course fee. S(3-4) F,S</td>
</tr>
</tbody>
</table>

What is changing? Check all boxes that apply.

☐ Course Deletion  ☐ Course Code  ☐ Course Number  ☐ Title  ☐ X Prerequisite

☐ Credit Hours/Contact Hours  ☐ Periodicity  ☐ Description

Reason for Proposed Change or Deletion
Basic comprehension of genetics is integral to success in course.

How Did You Determine the Need For This Change or Deletion?
Discussion among faculty at regular faculty meetings.

COMPLETE NEW CATALOG INFORMATION (typed)

BIO 310 - Microbiology
Prerequisite: "C-" grade or better in BIO 235 or BMS 230 or BMS 231; and "C-“ grade or better in CHM 105 or CHM 160. Fundamental principles of microbiology; development of sound laboratory skills. A student who takes BIO 210 and BIO 310 receives credit toward graduation only for BIO 310. Supplemental course fee. S(3-4) F,S
0.000 TO 5.000 Credit hours
0.000 TO 3.000 Lecture hours
0.000 TO 4.000 Lab hours

☐ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 38(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/94 for definitions of substantive/non-substantive changes.

☐ College Council
☐ Professional Education Committee
☐ Committee on General Education and Intercollegiate Programs

☐ Graduate Council
(Considers all substantive courses in Professional Education courses and Teaching Methods courses.)
(Considers all substantive course changes for General Education and Intercollegiate Program proposals.)
(Considers all 600-900 level course changes.)

Signature: [Signature]

Department Head

(Routing on Reverse Side)

Date: 9-23-13

FS Course Change - 9/10/2010
Missouri State University  
Curricular Proposal Course Change or Deletion

Check one: This is a change to ___X___ an existing COURSE  
___ an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
<thead>
<tr>
<th>Present Catalog Description</th>
<th>Revised Catalog Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Cut and paste from web catalog or use most recent description.)</td>
<td>(Cut and paste description again, strikethrough all deletions, and insert and bold new information.)</td>
</tr>
</tbody>
</table>
| BIO 320 - Introduction to Cellular Biology  
Prerequisite: BIO 235 or BMS 230; and CHM 200 or CHM 342. Introduction to the structure and function of cells with an emphasis on eukaryotes. Supplemental course fee. 4(3-2) F,S | BIO 320 - Introduction to Cellular Biology.  
Prerequisite: BIO 235 or BMS 230; and CHM 200 or CHM 342. 
"C-" grade or better in BIO 235 or BMS 230; and "C-" grade or better in CHM 200 or CHM 342. Introduction to the structure and function of cells with an emphasis on eukaryotes. Supplemental course fee. 4(3-2) F,S |

What is changing? Check all boxes that apply.
- Course Deletion  
- Course Code  
- Course Number  
- Title  
- Prerequisite  
- Description

Reason for Proposed Change or Deletion
Basic comprehension of genetics is integral to success in course.

How Did You Determine the Need For This Change or Deletion?
Discussion among faculty at regular faculty meetings.

COMPLETE NEW CATALOG INFORMATION (typed)
BIO 320 - Introduction to Cellular Biology  
Prerequisite: "C-" grade or better in BIO 235 or BMS 230; and "C-" grade or better in CHM 200 or CHM 342. Introduction to the structure and function of cells with an emphasis on eukaryotes. Supplemental course fee. 4(3-2) F,S

0.000 TO 4.000 Credit hours  
0.000 TO 3.000 Lecture hours  
0.000 TO 2.000 Lab hours

___ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 38(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/04 for definitions of substantive/non-substantive changes.

___ College Council
(All substantive course changes numbered 100-599 must go through College Council first. After approval, College Council will forward appropriate number of copies to the next committee/council or directly to the Faculty Senate if no further committee approval is needed. The last level of committee/council will forward two originally signed copies to the Faculty Senate.)

___ Professional Education Committee
(Considers all substantive course changes for Professional Education courses and Teaching Methods courses.)

___ Committee on General Education and Intercollegiate Programs
(Considers all substantive course changes for General Education and Intercollegiate Program proposals.)

___ Graduate Council
(Considers all 600-900 level course changes.)

Signature ____________
Department Head

Date 9-23-13
(Routing on Reverse Side)  
FS Course Change - 9/10/2010
Check one: This is a change to _X_ an existing COURSE
     ___an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
<thead>
<tr>
<th>Present Catalog Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO:361 - General Physiology</td>
</tr>
<tr>
<td>Prerequisite: BIO 235. A study in animal biology that emphasizes the functional features of whole organisms including physiological regulations. A grade of &quot;C&quot; or better is required in this course in order to take BMS 363. Supplemental course fee. 4(3-3) F,S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Revised Catalog Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 361 - General Physiology</td>
</tr>
<tr>
<td>Prerequisite: &quot;C-&quot; grade or better in BIO 235. A study in animal biology that emphasizes the functional features of whole organisms including physiological regulations. A grade of &quot;C&quot; or better is required in this course in order to take BMS 363. Supplemental course fee. 4(3-3) F,S</td>
</tr>
</tbody>
</table>

What is changing? Check all boxes that apply.

☐ Course Deletion  ☐ Course Code  ☐ Course Number  ☐ Title  ☐ Prerequisite  ☐ Periodicity  ☐ Description

Reason for Proposed Change or Deletion

Basic comprehension of genetics is integral to success in course.

How Did You Determine the Need For This Change or Deletion?

Discussion among faculty at regular faculty meetings.

COMPLETE NEW CATALOG INFORMATION (typewritten)

BIO 361 - General Physiology
Prerequisite: "C-" grade or better in BIO 235. A study in animal biology that emphasizes the functional features of whole organisms including physiological regulations. A grade of "C" or better is required in this course in order to take BMS 363. Supplemental course fee. 4(3-3) F,S

0.000 TO 4.000 Credit hours
0.000 TO 3.000 Lecture hours
0.000 TO 3.000 Lab hours

_____ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VII, SEC 3B(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/94 for definitions of substantive/non-substantive changes.

_____ X ____ College Council

____ Professional Education Committee

____ Committee on General Education and Intercollegiate Programs

____ Graduate Council

Signature ___________________________  Date 9-23-13

REQUIRED ADDITIONAL INFORMATION:

(Routing on Reverse Side)

FS Course Change - 9/10/2010
Computer Science

Department/School

Computer Science, Bachelor of Science

Title of Major and Degree

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—include course code, course number, title, and credit hours of each course.

CSC 335 (3-0) Database System Concepts
CSC 365 (3-0) Internet Programming
CSC 482 (1-0) Seminar in Computer Science

Answer all following questions related to the course(s) entered above.

1. Does the course(s) currently exist? Enter yes or no.  
   Yes __________ No __________

   If no, a new course proposal form must be submitted and accompany this program change form.

2. If course(s) does exist, will a course change be needed (i.e., credit hours, description, etc.)? Enter yes or no.
   Yes __________ No __________

   If yes, a course change form must be submitted and accompany this program change form.

3. Is the course(s) currently required in the program for all students? Enter yes or no.  
   Yes __________ No __________

   If no, the program must be revised. Attach a separate sheet with 1) present catalog description; 2) revised catalog description; and 3) complete new catalog information specifying the PAC Experience plus any other program changes related to the PAC.

4. Will all sections of the course(s) satisfy the PAC Experience? Enter yes or no.  
   Yes __________ No __________

   If no, specify which course(s) will be section-specific. Note: All service learning, study away, special topics, internships, and independent study courses will always be section-specific and will require special handling through the degree audit system.

5. Will a transfer equivalent of the course(s) satisfy the PAC Experience? Enter yes or no.  
   Yes __________ No __________

   Additional notes regarding any potential transfer equivalents.

Any course deemed to be an equivalent of these courses will, by necessity, cover the public affairs issues inherent in the topics: professional ethics and aspects of information storage and security in networked systems.

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).

☐ College Council (Send all undergraduate program changes through College Council as first step before forwarding either to PEC, CGEIP, or directly to Faculty Senate)
☐ Professional Education Committee (Considers all program changes affecting BS and MS in Education and Educational Specialist degrees)
☐ Committee on General Education and Intercollegiate Programs (Considers all general education and multi-college program changes)
☐ Graduate Council (Considers all graduate-level program changes)

Signature __________________________

Date 9/24/13

(Routing on Reverse Side)

FS Program Change - 9/10/2010
Missouri State University
Curricular Proposal Program Change or Deletion

Department: Geography, Geology, and Planning  Date: August 30, 2013

Title of Program Affected: Geography B.S.

Major: X Comprehensive Major  Option:  Minor:  Certificate:  Certification:  Academic Rules: Other:

Present Catalog Description
(Cut and paste from web catalog or use most recent description.)

Revised Catalog Description
(Cut and paste description again, strikethrough all deletions, and insert and bold new information.)

See Attachment A.  See Attachment B.

What is changing? Check all boxes that apply.

X Title change

Course changes of under 18 hours

Course changes of 18 hours or more

Other:

REASON FOR PROPOSED CHANGE

1) Add GRY 108 to requirements for Geotourism option. Reason: Sustainability is an integral part of the Geotourism approach to tourism development, and this course will provide the basic concepts.

2) In Geotourism option, combine sub-requirements #2 and #3. Reason: Avoid increasing total number of hours required in Geotourism option.

COMPLETE NEW CATALOG INFORMATION ( Typed)

See Attachment C.

Total Hours: 38-44 (no change)

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).

If the program needs to go through more than one committee/council, forward one additional form for each additional council/ committee marked.

X College Council (Send all undergraduate program changes through College Council as first step before forwarding either to PEC, CGEIP, or directly to Faculty Senate)

Professional Education Committee (Considers all program changes affecting BS and MS in Education and Educational Specialist degrees)

Committee on General Education and Intercollegiate Programs (Considers all general education and multi-college program changes)

Graduate Council (Considers all graduate-level program changes)

Signature:  Date: 9/24/2013

FS Program Change - 9/10/2010
Attachment A—Present Catalog Description

Geography (Non-Comprehensive)
Bachelor of Science

A. General Education Requirements - see General Education Program and Requirements section of catalog

B. Major Requirements (38-44 hours)

1. Core Requirements (15 hours): GRY 100(3), GRY 142(4), 363(4), 367(3), 498(1)

2. Related Requirement (3 hours): AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3)

3. Complete one of the following options:
   a. Cultural and Regional Geography (20-21 hours)
      1. Complete one of the following: GRY 300(3), 301(3), 305(3)
      2. Complete one of the following: GRY 320(3), 321(3), 322(3), 323(3)
      3. Complete one of the following field-studies courses: GRY 301(3), 353(3), 470(2)
      4. Complete 12 additional hours with GRY, GEO or PLN prefix
   b. Environmental and Natural Resources (24-25 hours)
      1. GRY 135(4), 348(3), 351(3), 535(3); GEO 551(3)
      2. Complete one of the following: GRY 300(3), 305(3), 320(3), 321(3), 322(3), 323(3)
      3. Complete one of the following field-studies courses: GRY 301(3), 353(3), 470(2); GLG 360(2)
      4. Complete 3 additional hours with GRY, GEO, or PLN prefix
      5. Recommended supplementary courses: CHM 105(5) or CHM 160(4); AGA 215(3); BIO 122(4); GRY 597(1-5). Students should select a minor in science, mathematics, agriculture, or an approved personalized minor.
   c. Geotourism (26 hours)
      1. GRY 308(3), 310(3), 328(3), 410(3), 470(2), 510(3); HRA 340(3)
      2. Complete one of the following: GRY 318(3), 320(3); PLN 372(3)
      3. Complete a minimum of 3 hours from the following: GLG 171(4); GRY 108(3), 301(3), 305(3), 321(3), 322(3), 323(3), 353(2), 399(1-3); PLN 100(3), 573(3), 574(3), 599(1-3)
      4. Recommended supplementary courses: any additional courses in subsection 2 or 3, plus any of the following: AGF 121(2); ART 271(3); HRA 210(3), 428(3), 430(3); JRN 270(3); MKT 150(3); PHI 302(3); PLS 232(3); REC 152(3), 303(3); THE 101(3)
Attachment B—Revised Catalog Description

Geography (Non-Comprehensive)
Bachelor of Science

A. General Education Requirements - see General Education Program and Requirements section of catalog

B. Major Requirements (38-44 hours)
1. Core Requirements (15 hours): GRY 100(3), GRY 142(4), 383(4), 367(3), 498(1)
2. Related Requirement (3 hours): AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3)
3. Complete one of the following options:
   a. Cultural and Regional Geography (20-21 hours)
      1. Complete one of the following: GRY 300(3), 301(3), 305(3)
      2. Complete one of the following: GRY 320(3), 321(3), 322(3), 323(3)
      3. Complete one of the following field-studies courses: GRY 301(3), 353(3), 470(2)
      4. Complete 12 additional hours with GRY, GEO or PLN prefix
   b. Environmental and Natural Resources (24-25 hours)
      1. GRY 135(4), 348(3), 351(3), 535(3); GEO 561(3)
      2. Complete one of the following: GRY 300(3), 305(3), 320(3), 321(3), 322(3), 323(3)
      3. Complete one of the following field-studies courses: GRY 301(3), 353(3), 470(2); GLG 360(2)
      4. Complete 3 additional hours with GRY, GEO, or PLN prefix
      5. Recommended supplementary courses: CHM 105(5) or CHM 160(4); AGA 215(3); BIO 122(4); GRY 597(1-5). Students should select a minor in science, mathematics, agriculture, or an approved personalized minor.
   c. Geotourism (26 hours)
      1. GRY 108(3), 308(3), 310(3), 328(3), 410(3), 470(2), 510(3); HRA 340(3)
      2. Complete one of the following: GRY 318(3), 320(3), PLN 372(3)
      3. Complete a minimum of 3 hours from the following: GLG 171(4); GRY 408(3), 301(3), 305(3), 318(3), 320(3), 321(3), 322(3), 323(3), 353(2), 399(1-3); PLN 100(3), 372(3), 573(3), 574(3), 599(1-3)
      4. Recommended supplementary courses: any additional courses in subsection 2 or 3, plus any of the following: AGF 121(2); ART 271(3); HRA 210(3), 428(3), 430(3); JRN 270(3); MKT 150(3); PHI 302(3); PLS 232(3); REC 152(3), 303(3); THE 101(3)
Attachment C—Complete New Catalog Information

Geography (Non-Comprehensive)
Bachelor of Science

A. General Education Requirements - see General Education Program and Requirements section of catalog

B. Major Requirements (38-44 hours)

1. Core Requirements (15 hours): GRY 100(3), GRY 142(4), 363(4), 367(3), 498(1)

2. Related Requirement (3 hours): AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3)

3. Complete one of the following options:
   a. Cultural and Regional Geography (20-21 hours)
      1. Complete one of the following: GRY 300(3), 301(3), 305(3)
      2. Complete one of the following: GRY 320(3), 321(3), 322(3), 323(3)
      3. Complete one of the following field-studies courses: GRY 301(3), 353(3), 470(2)
      4. Complete 12 additional hours with GRY, GEO or PLN prefix

   b. Environmental and Natural Resources (24-25 hours)
      1. GRY 135(4), 348(3), 351(3), 535(3); GEO 561(3)
      2. Complete one of the following: GRY 300(3), 305(3), 320(3), 321(3), 322(3), 323(3)
      3. Complete one of the following field-studies courses: GRY 301(3), 353(3), 470(2); GLG 380(2)
      4. Complete 3 additional hours with GRY, GEO, or PLN prefix
      5. Recommended supplementary courses: CHM 105(5) or CHM 160(4); AGA 215(3); BIO 122(4); GRY 597(1-5). Students should select a minor in science, mathematics, agriculture, or an approved personalized minor.

   c. Geotourism (25 hours)
      1. GRY 108(3), 308(3), 310(3), 328(3), 410(3), 470(2), 510(3); HRA 340(3)
      2. Complete a minimum of 3 hours from the following: GLG 171(4); GRY 301(3), 305(3), 318(3), 320(3), 321(3), 322(3), 323(3), 353(2), 399(1-3); PLN 100(3), 372(3), 573(3), 574(3), 599(1-3)
      3. Recommended supplementary courses: any additional courses in subsection 2 or 3, plus any of the following: AGF 121(2); ART 271(3); HRA 210(3), 428(3), 430(3); JRN 270(3); MKT 150(3); PHI 302(3); PLS 232(3); REC 152(3), 303(3); THE 101(3)
Missouri State University
Curricular Proposal Program Change or Deletion

Department: Geography, Geology, and Planning
Date: August 30, 2013

Title of Program Affected: Geospatial Sciences B.S. (Comprehensive)

Major: Comprehensive Major X Option ___ Minor ___ Certificate ___ Certification ___ Academic Rules ___ Other ___

Present Catalog Description
(Cut and paste from web catalog or use most recent description.)

See Attachment A.

Revised Catalog Description
(Cut and paste description again, strikethrough all deletions, and insert and bold new information.)

See Attachment B.

What is changing? Check all boxes that apply.

X Title change
- Course changes of under 18 hours
- Course changes of 18 hours or more

From option to program (major) ___ From program (major) to option ___ Other ___

Program or option deletion ___

REASON FOR PROPOSED CHANGE

To streamline the curriculum of this comprehensive major to make it more attractive to a wider audience of potential students.

COMPLETE NEW CATALOG INFORMATION (Typed)

See Attachment C.

Total Hours: 59-63 (from 65-68)

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council committee marked).

If the program needs to go through more than one committee council, forward one additional form for each additional council committee marked.

X College Council
[Send all undergraduate program changes through College Council as first step before forwarding either to PEC, CGEIP, or directly to Faculty Senate]

Professional Education Committee
[Considers all program changes affecting BS and MS in Education and Educational Specialist degrees]

Committee on General Education and Intercollegiate Programs
[Considers all general education and multi-college program changes]

Graduate Council
[Considers all graduate-level program changes]

Signature: [Signature]
Department Head

(Date: 9/24/2013)
(Routing on Reverse Side)
Attachment A—Present Catalog Description

Geospatial Sciences (Comprehensive)
Bachelor of Science

A. General Education Requirements - see General Education Program and Requirements section of catalog

B. Major Requirements (65-68 hours)

1. GRY 100(3) or 108(3); GRY 142(4) or GLG 110(4); GRY 275(3); GRY 300(3) or 301(3) or 305(3); GRY 360(3), 363(4), 367(3), 470(2), 498(1); GEO 551(3), 561(3), 562(3), 566(3), 568(3), 572(3); CSC 121(3) or CSC 125(4) or CIS 260(3); MTH 181(3) or 138(5); AGR 330(3) or MTH 340(3) or PSY 206(3) or QBA 237(3) or REC 328(3) or SOC 302(3)

2. Complete 12 additional hours from the following: GRY 300(3) or 301(3) or 305(3); GRY 320(3), 321(3), 322(3), 323(3), 324(3), 326(3), 327(3), 375(3), 377(3), 379(3), 507(3), 525(3); GEO 573(3), 575(3), 578(3); TCM 110(3), 313(3); MTH 261(5) or 287(3); MTH 280(5) or 289(3); CIS 230(3), 270(3), 321(3), 326(3), 528(3); CSC 131(3), 232(3), 335(3), 525(3). NOTE: Students who select a surveying emphasis must take GRY 375(3), 377(3), 379(3).

C. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

Attachment B—Revised Catalog Description

Geospatial Sciences (Comprehensive)
Bachelor of Science

A. General Education Requirements - see General Education Program and Requirements section of catalog

B. Major Requirements (65-68 **59-63** hours)

1. GRY 100(3) or 108(3) or **PLN 100(3)**
2. GRY 142(4) or GLG 110(4)
3. GRY 275(3) or **348(3) or 351(3)**
4. GRY 300(3) or 304(3) or 305(3) or **320(3) or 321(3) or 322(3) or 323(3)**
5. GRY 301(3) or **353(2) or 470(2)**
6. GRY 360(3), 363(4), 367(3), 470(2), 498(1)
7. GEO 551(3), 561(3), 562(3), 566(3), 568(3), 572(3)
8. CSC 121(3) or **130(3) or CSC 125(4) or CIS 260(3); MTH 181(3) or 138(5)**
9. AGR 330(3) or MTH 340(3) or PSY 206(3) or QBA 237(3) or REC 328(3) or SOC 302(3)
10. **Complete 3 additional hours with GEO prefix**
11. Complete 42 additional hours from the following: **GRY courses numbered 300 or above** 300(3) or 301(3) or 305(3); GRY 320(3), 321(3), 322(3), 323(3), 348(3), 361(3), 375(3), 377(3), 379(3), 507(3), 525(3); GEO 573(3), 575(3), 578(3); TCM 110(3), 313(3); MTH **138(5), 181(3)**, 261(5) or 287(3), MTH 280(5) or 289(3); CIS 230(3), 270(3), 321(3), 326(3), 528(3); CSC 131(3), 232(3), 335(3), 525(3)

NOTE: Students who select a surveying emphasis must take GRY 275(3), 375(3), 377(3), 379(3).

C. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog
Attachment C—Complete New Catalog Description

Geospatial Sciences (Comprehensive)
Bachelor of Science

A. General Education Requirements - see General Education Program and Requirements section of catalog

B. Major Requirements (59-63 hours)

1. GRY 100(3) or 108(3) or PLN 100(3)
2. GRY 142(4) or GLG 110(4)
3. GRY 275(3) or 348(3) or 351(3)
4. GRY 300(3) or 305(3) or 320(3) or 321(3) or 322(3) or 323(3)
5. GRY 301(3) or 353(2) or 470(2)
6. GRY 360(3), 363(4), 367(3), 498(1)
7. GEO 551(3), 561(3), 562(3), 566(3), 568(3), 572(3)
8. CSC 130(3)
9. AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3)
10. Complete 3 additional hours with GEO prefix
11. Complete 6 additional hours from the following: GRY courses numbered 300 or above; TCM 110(3); MTH 138(5), 181(3), 261(5) or 287(3), 280(5) or 288(3); CSC 131(4), 335(3)

NOTE: Students who select a surveying emphasis must take GRY 275(3), 375(3), 377(3), 379(3).

C. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog
Missouri State University
Curricular Proposal Program Change or Deletion

Title of Program Affected: Geography Minor

Date: August 30, 2013

Major: Comprehensive Major: Option: Minor: X
Certificate: Certification: Academic Rules: Other:

Present Catalog Description
(Cut and paste from web catalog or use most recent description.)

<table>
<thead>
<tr>
<th>Geography</th>
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<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>Bachelor of Arts</td>
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<tr>
<td>Bachelor of Science</td>
<td>Bachelor of Science</td>
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<tr>
<td>Bachelor of Science in Education (Non-Certifiable)</td>
<td>Bachelor of Science in Education (Non-Certifiable)</td>
</tr>
<tr>
<td>A. GRY 100(3), 142(4), 321(3), 351(3)</td>
<td>A. GRY 100(3), 142(4), 321(3), 351(3), 363(4)</td>
</tr>
<tr>
<td>B. Additional upper divisional electives in GRY, GEO, or PLN to total at least 18 hours.</td>
<td>B. Additional upper divisional electives in GRY, GEO, or PLN to total at least 18 hours.</td>
</tr>
</tbody>
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What is changing? Check all boxes that apply.

- [X] Title change
- [ ] Course changes of under 18 hours
- [ ] Course changes of 18 hours or more
- [ ] From option to program (major)
- [ ] From program (major) to option
- [ ] Program or option deletion

Other: _____________

REASON FOR PROPOSED CHANGE

- Require GRY 363 (Introduction to Geospatial Science) instead of GRY 321 (Economic Geography) and GRY 351 (Conservation of Natural Resources). Reason: to reflect the growing importance of Geographic Information Systems in geography and related disciplines.
- Reduce the total number of hours from 18 to 17. Reason: with the addition of GRY 363(4), the total in the “required” list is 11 hours. Most of our upper division elective courses are 3 hours, so two additional courses would bring the total to 17 hours.

COMPLETE NEW CATALOG INFORMATION (Typed)

Geography
Bachelor of Arts
Bachelor of Science
Bachelor of Science in Education (Non-Certifiable)
A. GRY 100(3), 142(4), 363(4)
B. Additional upper divisional electives in GRY, GEO, or PLN to total at least 17 hours.

Total Hours: 17 (change from 18)

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).

If the program needs to go through more than one committee/council, forward one additional form for each additional council/committee marked.

- [X] College Council
- [ ] Professional Education Committee
- [ ] Committee on General Education and Intercollegiate Programs
- [ ] Graduate Council

(Send all undergraduate program changes through College Council as first step before forwarding either to PEC, CGEIP, or directly to Faculty Senate)

(Considers all program changes affecting BS and MS in Education and Educational Specialist degrees)

(Considers all general education and multi-college program changes)

Signature: ____________________________
Department Head

Date: 9/24/2013

(Routing on Reverse Side)
Missouri State University
Curricular Proposal Program Change or Deletion

Department: Geography, Geology, and Planning
Date: August 30, 2013

Title of Program Affected: Geotourism Minor

<table>
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<tr>
<th>Major</th>
<th>Comprehensive Major</th>
<th>Option</th>
<th>Minor</th>
<th>Certificate</th>
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<th>Academic Rules</th>
<th>Other</th>
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</tbody>
</table>

Present Catalog Description
(Cut and paste from web catalog or use most recent description.)

Geotourism
Bachelor of Arts
Bachelor of Science
A. GRY 100(3), 308(3), 310(3), 328(3), 410(3)
B. HRA 340(3)

Geotourism
Bachelor of Arts
Bachelor of Science
A. GRY 100(3) **108(3)**, 308(3), 310(3), 328(3), 410(3)
B. HRA 340(3)

Because of course overlap, this minor cannot be used by students selecting the Geotourism option in the B.S. major in Geography.

What is changing? Check all boxes that apply.

- [X] Course changes of under 18 hours
- [ ] Course changes of 18 hours or more
- [ ] From option to program (major)
- [ ] From program (major) to option
- [ ] Program or option deletion

REASON FOR PROPOSED CHANGE
Sustainability is an integral part of the Geotourism approach to tourism development, and GRY 108 will provide the basic concepts.

COMPLETE NEW CATALOG INFORMATION (Typed)

Geotourism
Bachelor of Arts
Bachelor of Science
A. GRY 108(3), 308(3), 310(3), 328(3), 410(3)
B. HRA 340(3)

Because of course overlap, this minor cannot be used by students selecting the Geotourism option in the B.S. major in Geography.

Total Hours: 18

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If the program needs to go through more than one committee/council, forward one additional form for each additional council/committee marked.

- [X] College Council

Professional Education Committee

(Consider all program changes affecting BS and MS in Education and Educational Specialist degrees)

Committee on General Education and Intercollegiate Programs

(Considers all general education and multi-college program changes)

Graduate Council

(Considers all graduate-level program changes)

Signature: [Signature]
Department Head: [Department Head]
Date: 9/29/2013

FS Program Change - 9/10/2010
Missouri State University
Curricular Proposal Program Change or Deletion

Department: Geography, Geology, and Planning
Date: August 30, 2013

Title of Program Affected: Global Studies Minor

Major: Comprehensive Major: Option: X Minor: Certificate: Certification: Academic Rules: Other:

Present Catalog Description
(Cut and paste from web catalog or use most recent description.)

Global Studies
Bachelor of Arts
Bachelor of Science
A. GRY 100(3); GRY 320(3) or 323(3); GRY 363(4) or 367(3)
B. Nine additional hours in regional geography courses: GRY 305(3), 308(3), 316(3), 507(3). Note: GRY 305(3) is a variable content course that may be repeated with new content.

Revised Catalog Description
(Cut and paste description again, strike through all deletions, and insert and bold new information.)

Global Studies
Bachelor of Arts
Bachelor of Science
A. GRY 100(3); GRY 305(3); GRY 320(3) or 321(3) or 323(3); GRY 363(4) or 367(3)
B. Nine additional hours in regional geography courses selected from: GRY 305(3), 308(3), 316(3), 318(3), 320(3), 321(3), 322(3), 323(3), 507(3). Note: GRY 305(3) is a variable content course that may be repeated with new content.

Because of course overlap, this minor cannot be used by students selecting the Cultural & Regional Geography option in the B.S. major in Geography.

Total Hours: 18

What is changing? Check all boxes that apply.

X Title change
Course changes of under 18 hours
Course changes of 18 hours or more
From option to program (major)
From program (major) to option
Program or option deletion

REASON FOR PROPOSED CHANGE
The global studies minor emphasizes global patterns and processes rather than the technical skills taught in GRY 363 (Introduction to Geospatial Science) or GRY 367 (Research Methods in Geography).

COMPLETE NEW CATALOG INFORMATION (Typed)

Global Studies
Bachelor of Arts
Bachelor of Science
A. GRY 100(3); GRY 305(3); GRY 320(3) or 321(3) or 323(3)
B. Nine additional hours in regional geography courses selected from: GRY 305(3), 308(3), 316(3), 318(3), 320(3), 321(3), 322(3), 323(3), 507(3). Note: GRY 305(3) is a variable content course that may be repeated with new content.

Because of course overlap, this minor cannot be used by students selecting the Cultural & Regional Geography option in the B.S. major in Geography.

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).
If the program needs to go through more than one committee/council, forward one additional form for each additional council/committee marked.

X College Council
Professional Education Committee (Considers all program changes affecting BS and MS in Education and Educational Specialist degrees)
Committee on General Education and Intercollegiate Programs (Considers all general education and multi-college program changes)
Graduate Council (Considers all graduate-level program changes)

Signature: [Signature] Date: 9/24/2013

(Routing on Reverse Side) FS Program Change - 9/10/2010
Missouri State University
Curricular Proposal Course Change or Deletion

Department: Geography, Geology, and Planning
Date: August 30, 2013

Check one: This is a change to ___ an existing COURSE
___ an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
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<tr>
<th>Present Catalog Description</th>
<th>Revised Catalog Description</th>
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<tr>
<td>GLG 340 Structural Geology</td>
<td>GLG 340 Structural Geology</td>
</tr>
<tr>
<td>Prerequisite: GLG 314 and GLG 333, and either MTH 138 or MTH 181. Recommended Prerequisite: PHY 123 or PHY 203. Elementary theory of stress and strain, rock behavior, continuous structures, fracture theory, discontinuous structures and kinematics of plate motion. A grade of &quot;C&quot; or better is required in this course in order to take GLG 413. This course may not be taken Pass/Not Pass. 4(3-2) F.</td>
<td></td>
</tr>
<tr>
<td>Prerequisite: GLG 314 and GLG 333 or concurrent enrollment, and either MTH 138 or MTH 181. Recommended Prerequisite: PHY 123 or PHY 203. Elementary theory of stress and strain, rock behavior, continuous structures, fracture theory, discontinuous structures and kinematics of plate motion. A grade of &quot;C&quot; or better is required in this course in order to take GLG 413. This course may not be taken Pass/Not Pass. 4(3-2) F.</td>
<td></td>
</tr>
</tbody>
</table>

What is changing? Check all boxes that apply.

☐ Course Deletion  ☐ Course Code  ☐ Credit Hours/Contact Hours  ☐ Periodicity  ☐ Title  ☐ Prerequisite  ☐ Description

Reason for Proposed Change or Deletion

Because of staffing limitations, it is necessary to move GLG from Fall to Spring.

How Did You Determine the Need For This Change or Deletion?

Since the prerequisite to GLG 340, GLG 333, is a Spring-only course, we are now going to allow concurrent enrollment in GLG 333 and GLG 340. This will preclude the necessity of adding an additional year to course sequence for many of our geology majors.

COMPLETE NEW CATALOG INFORMATION (typed)

GLG 340 Structural Geology
Prerequisite: GLG 314 and GLG 333 or concurrent enrollment, and either MTH 138 or MTH 181. Recommended Prerequisite: PHY 123 or PHY 203. Elementary theory of stress and strain, rock behavior, continuous structures, fracture theory, discontinuous structures and kinematics of plate motion. A grade of "C" or better is required in this course in order to take GLG 413. This course may not be taken Pass/Not Pass. 4(3-2) S.

☐ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/94 for definitions of substantive/non-substantive changes.

☐ College Council (All substantive course changes numbered 100-599 must go through College Council first. After approval, College Council will forward appropriate number of copies to the next committee/council or directly to the Faculty Senate if no further committee approval is needed. The last level of committee/council will forward two originally signed copies to the Faculty Senate.)

☐ Professional Education Committee (Considers all substantive course changes for Professional Education courses and Teaching Methods courses.)

☐ Committee on General Education and Intercollegiate Programs (Considers all substantive course changes for General Education and Intercollegiate Program proposals.)

☐ Graduate Council (Considers all 600-900 level course changes.)

Signature ____________________________ Date 9/24/2013

FS Course Change - 9/10/2010
Check one: This is a change to  X an existing COURSE

an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
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<tr>
<th>Present Catalog Description</th>
<th>Revised Catalog Description</th>
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<tbody>
<tr>
<td>GLG 412 Field Geology of the Midcontinent Region</td>
<td>GLG 412 Field Geology of the Midcontinent Region</td>
</tr>
<tr>
<td>Prerequisite: GLG 314 and permission.</td>
<td>Prerequisite: GLG 314 and permission either GLG 318 or GLG 333 or concurrent enrollment</td>
</tr>
<tr>
<td>Regional geology of the Midcontinent including the Ozark, Wichita, Arbuckle, Ouachita and Boston Mountains, and associated basins. Introduction to geologic field methods including the use of aerial photograph and geologic maps, cross-sections, and block diagrams in the interpretation of regional geologic history. Supplemental course fee. 4(2-4) S.</td>
<td>Regional geology of the Midcontinent including the Ozark, Wichita, Arbuckle, Ouachita and Boston Mountains, and associated basins. Introduction to geologic field methods including the use of aerial photograph and geologic maps, cross-sections, and block diagrams in the interpretation of regional geologic history. Supplemental course fee. 4(2-4) S.</td>
</tr>
</tbody>
</table>

What is changing? Check all boxes that apply.
☐ Course Deletion   ☐ Course Code   ☐ Course Number   ☐ Periodicity   ☐ Title   ☐ Description
☐ Credit Hours/Contact Hours

Reason for Proposed Change or Deletion
Experience over the past few years has indicated that GLG 314 alone does not provide sufficient geologic background for students to consistently do well in the 6-contact-hour field course.

How Did You Determine the Need For This Change or Deletion?
GLG 412 serves two primary audiences: B.S. majors in Geology and B.S.Ed. majors in Earth Science Education. The Geology majors typically take our GLG 332-333 sequence immediately after completing GLG 314; the Earth Science Education majors typically take GLG 318 immediately after completing GLG 314. This change in prerequisite will insure that both audiences will have approximately the same minimum level of “geologic maturity” before attempting the GLG 412 field course.

COMPLETE NEW CATALOG INFORMATION (typed)

GLG 412 Field Geology of the Midcontinent Region
Prerequisite: GLG 314 and either GLG 318 or GLG 333 or concurrent enrollment.
Regional geology of the Midcontinent including the Ozark, Wichita, Arbuckle, Ouachita and Boston Mountains, and associated basins. Introduction to geologic field methods including the use of aerial photograph and geologic maps, cross-sections, and block diagrams in the interpretation of regional geologic history. Supplemental course fee. 4(2-4) S.

☐ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 38(1)-4 of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/94 for definitions of substantive/non-substantive changes.

☐ College Council
   (All substantive course changes numbered 100-599 must go through College Council first. After approval, College Council will forward appropriate number of copies to the next committee/council or directly to the Faculty Senate if no further committee approval is needed. The last level of committee/council will forward two originally signed copies to the Faculty Senate.)

☐ Professional Education Committee
   (Considers all substantive course changes for Professional Education courses and Teaching Methods courses.)

☐ Committee on General Education and Intercollegiate Programs
   (Considers all substantive course changes for General Education and Intercollegiate Program proposals.)

☐ Graduate Council
   (Considers all 600-900 level course changes.)

Signature

Date 9/29/2013

(Routing on Reverse Side)
Check one: This is a change to  X an existing COURSE  
_ an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
<thead>
<tr>
<th>Present Catalog Description</th>
<th>Revised Catalog Description</th>
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</table>
| GLG 570 Principles of Stratigraphy  
Prerequisite: GLG 314. Recommended Prerequisite: GLG 333. Principles underlying the deposition of sediments; environmental control of lithofacies and biofacies; recognition of ancient depositional environments by key indicators and modern analogs. May be taught concurrently with GLG 670. Cannot receive credit for both GLG 670 and GLG 570. 4(3-2) F. | GLG 570 Principles of Stratigraphy  
Prerequisite: GLG 314. Recommended Prerequisite: and GLG 333. Principles underlying the deposition of sediments; environmental control of lithofacies and biofacies; recognition of ancient depositional environments by key indicators and modern analogs. May be taught concurrently with GLG 670. Cannot receive credit for both GLG 670 and GLG 570. 4(3-2) F. |

What is changing? Check all boxes that apply.  
☐ Course Deletion  ☐ Course Code  ☐ Course Number  ☐ Title  ☐ Prerequisite

☐ Credit Hours/Contact Hours  ☐ Periodicity  ☐ Description

Reason for Proposed Change or Deletion

Experience over the past few years has indicated that GLG 314 does not provide our geology majors with sufficient practice in the identification and classification of sedimentary rocks to do well in GLG 570. Those topics are emphasized in GLG 333.

How Did You Determine the Need For This Change or Deletion?

Experience over the past few years has indicated that GLG 314 does not provide our geology majors with sufficient practice in the identification and classification of sedimentary rocks to do well in GLG 570. Those topics are emphasized in GLG 333.

COMPLETE NEW CATALOG INFORMATION (typed)

GLG 570 Principles of Stratigraphy  
Prerequisite: GLG 314 and GLG 333. Principles underlying the deposition of sediments; environmental control of lithofacies and biofacies; recognition of ancient depositional environments by key indicators and modern analogs. May be taught concurrently with GLG 670. Cannot receive credit for both GLG 670 and GLG 570. 4(3-2) F.

☐ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/94 for definitions of substantive/non-substantive changes.

☐ College Council
(All substantive course changes numbered 100-599 must go through College Council first. After approval, College Council will forward appropriate number of copies to the next committee/council or directly to the Faculty Senate if no further committee approval is needed. The last level of committee/council will forward two originally signed copies to the Faculty Senate.)

☐ Professional Education Committee  
(Considers all substantive course changes for Professional Education courses and Teaching Methods courses.)

☐ Committee on General Education and Intercollegiate Programs  
(Considers all substantive course changes for General Education and Intercollegiate Program proposals.)

☐ Graduate Council
(Considers all 600-999 level course changes.)

Signature  

Date

(FS Course Change - 9/10/2010)
Missouri State University
Curricular Proposal Course Change or Deletion

Department: Geography, Geology, and Planning
Date: August 30, 2013

Check one: This is a change to ___ an existing COURSE
       ___ an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
<thead>
<tr>
<th>Present Catalog Description</th>
<th>Revised Catalog Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRY 308 Geography of World Tourism: A systematic description and analysis of the world's major</td>
<td></td>
</tr>
<tr>
<td>tourism destination regions including coastal zones, alpine areas, interior lakes and waterways,</td>
<td></td>
</tr>
<tr>
<td>cities, and cultural attractions. Geographic and economic factors affecting the development of</td>
<td></td>
</tr>
<tr>
<td>tourism regions are considered. 3(3-0) F.S.</td>
<td>GRY 308 Geography of World Tourism: A systematic description and analysis of the world's major</td>
</tr>
<tr>
<td>tourism destination regions including coastal zones, alpine areas, interior lakes and waterways,</td>
<td></td>
</tr>
<tr>
<td>cities, and cultural attractions with special emphasis on World Heritage sites. Case studies</td>
<td></td>
</tr>
<tr>
<td>will examine the role local communities play in the sustainable development of sites with special</td>
<td></td>
</tr>
<tr>
<td>natural and/or cultural value. 3(3-0) F.S.</td>
<td></td>
</tr>
</tbody>
</table>

What is changing? Check all boxes that apply.
☐ Course Deletion  ☐ Course Code  ☐ Title  ☐ Prerequisite
☐ Credit Hours/Contact Hours  ☐ Periodicity  X Description

Reason for Proposed Change or Deletion

This course was originally structured as an extension of World Regional Geography (GYR 100) and did not go in depth into the reasons why tourism is more successful in one region of the world versus another.

How Did You Determine the Need For This Change or Deletion?

With an emphasis on World Heritage Sites, the revised course will allow students to go into depth as to the reasons for the preservation of such sites, their cultural, heritage and natural importance to the communities, and the impact of tourism from both a positive and negative perspective.

COMPLETE NEW CATALOG INFORMATION (typed)

GRY 308 Geography of World Tourism
A systematic description and analysis of the world's major tourism destination regions with special emphasis on World Heritage sites. Case studies will examine the role local communities play in the sustainable development of sites with special natural and/or cultural value. 3(3-0) F.S.

☐ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 3B1(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-53/94 for definitions of substantive/non-substantive changes.

☐ College Council  ☐ Professional Education Committee  ☐ Committee on General Education and Intercollegiate Programs

☐ Graduate Council  (Considers all substantive course changes for General Education and Intercollegiate Program proposals.)

Signature: ____________________________  Date: 9/29/2013  (Routing on Reverse Side)

FS Course Change - 9/10/2010
Missouri State University
Curricular Proposal Course Change or Deletion

Department __Geography, Geology, and Planning__ Date __September 3, 2013__

Check one: This is a change to __X__ an existing COURSE
___ an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
<thead>
<tr>
<th>Present Catalog Description</th>
<th>Revised Catalog Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRY 310 Fundamentals of Tourism Geographical and recreational elements of tourism and travel including social, economic, environmental and political factors. Career options will be identified. Students participate in tourism research projects. One field trip may be required. Team taught by Geography and Recreation and Leisure Studies faculty. Identical with REC 320. Cannot receive credit for both GRY 310 and REC 320. 3(3-0) F.</td>
<td>GRY 310 Fundamentals of Tourism Geographical and recreational elements of tourism and travel including social, economic, environmental and political factors. Career options will be identified. Students participate in tourism research projects. One field trip may be required. Team taught by Geography and Recreation and Leisure Studies faculty. Identical with REC 320. Cannot receive credit for both GRY 310 and REC 320. Tourism is analyzed from the academic perspective. This course incorporates concepts, principles, and theories from disciplines such as psychology, economics and marketing that greatly influence the industry. The course covers the destination, marketing, demand, and transportation. It connects the geographical elements and the impact of tourism, while also analyzing the government regulations that attempt to mitigate negative results. 3(3-0) F.</td>
</tr>
</tbody>
</table>

What is changing? Check all boxes that apply.

☐ Course Deletion ☐ Course Code ☐ Course Number ☐ Title ☐ Prerequisite

☐ Credit Hours/Contact Hours ☐ Periodicity ☐ X Description

Reason for Proposed Change or Deletion

This course was originally developed in conjunction with and team-taught with faculty from the program in Recreation and Leisure Studies. As the two programs have grown and evolved, the role of these two courses has diverged; they have not been team-taught for over a decade. The proposed change to the catalog description is simply a "truth in advertising" acknowledgement of that reality.

How Did You Determine the Need for This Change or Deletion?

GRAY 310 is taught from a geographic perspective. Connections with international tourism research organizations, such as the WTTC and the UNWTO are utilized for research papers. The course focuses on tourism development and all of the various actors that participate in the process. The current course content goes well beyond the original course description.

COMPLETE NEW CATALOG INFORMATION (typed)

GRAY 310 Fundamentals of Tourism
Tourism is analyzed from the academic perspective. This course incorporates concepts, principles, and theories from disciplines such as psychology, economics and marketing that greatly influence the industry. The course covers the destination, marketing, demand, and transportation. It connects the geographical elements and the impact of tourism, while also analyzing the government regulations that attempt to mitigate negative results. 3(3-0) F.

☐ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 500- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/94 for definitions of substantive/non-substantive changes.

☐ College Council (All substantive course changes numbered 100-599 must go through College Council first. After approval, College Council will forward appropriate number of copies to the next committee/council or directly to the Faculty Senate if no further committee approval is needed. The last level of committee/council will forward two originally signed copies to the Faculty Senate.)

☐ Professional Education Committee (Considers all substantive course changes for Professional Education courses and Teaching Methods courses.)

☐ Committee on General Education and Intercollegiate Programs (Considers all substantive course changes for General Education and Intercollegiate Program proposals.)

☐ Graduate Council (Considers all 600-900 level course changes.)

Signature __[Signature]__ (Routing on Reverse Side) Date __9/24/2013__

FS Course Change - 9/10/2010
Missouri State University
Curricular Proposal Course Change or Deletion

Department: Geography, Geology, and Planning  Date: September 3, 2013

Check one: This is a change to  X an existing COURSE

an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
<thead>
<tr>
<th>Present Catalog Description</th>
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<tr>
<td>(Cut and paste from web catalog or use most recent description.)</td>
<td>(Cut and paste description again, strikethrough all deletions, and insert and bold new information.)</td>
</tr>
<tr>
<td>GRY 328 Principles of Geotourism</td>
<td>GRY 328 Principles of Geotourism</td>
</tr>
<tr>
<td>Prerequisite: GRY 100 and GRY 310.</td>
<td>Prerequisite: GRY 400 308 and GRY 310.</td>
</tr>
<tr>
<td>From landscapes, habitats and species to global events such as the Olympics, the ways in which humans interact, impact and explore the world leave indelible &quot;footprints&quot;. The students will be introduced to some of the key concepts and methods used to investigate and make sense of the role, significance and impact of tourism that sustains or enhances the geographical character of a place--its environment, culture, aesthetics, heritage, and the well-being of its residents. 3(3-0) S.</td>
<td>From landscapes, habitats and species to global events such as the Olympics, the ways in which humans interact, impact and explore the world leave indelible &quot;footprints&quot;. The students will be introduced to some of the key concepts and methods used to investigate and make sense of the role, significance and impact of tourism that sustains or enhances the geographical character of a place--its environment, culture, aesthetics, heritage, and the well-being of its residents. 3(3-0) S.</td>
</tr>
</tbody>
</table>

What is changing? Check all boxes that apply.

☐ Course Deletion  ☐ Course Code  ☐ Course Number  ☐ Title  ☐ Prerequisite

☐ Credit Hours/Contact Hours  ☐ Periodicity  ☐ Description

Reason for Proposed Change or Deletion

To more clearly illustrate the intended sequencing of the 300-level courses required in our geotourism programs.

How Did You Determine the Need For This Change or Deletion?

The students in the minor in Geotourism are no longer required to take GRY 100, but they will need the prerequisite knowledge of world regions provided in GRY 308. In addition, GRY 308 provides needed coverage of World Heritage Sites and tourism sustainability options, which are integral parts of the Geotourism program.

COMPLETE NEW CATALOG INFORMATION (typed)

GRY 328 Principles of Geotourism  Prerequisite: GRY 308 and GRY 310. From landscapes, habitats and species to global events such as the Olympics, the ways in which humans interact, impact and explore the world leave indelible "footprints". The students will be introduced to some of the key concepts and methods used to investigate and make sense of the role, significance and impact of tourism that sustains or enhances the geographical character of a place--its environment, culture, aesthetics, heritage, and the well-being of its residents.

☐ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate, 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 39(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/94 for definitions of substantive/non-substantive changes.

☐ College Council

☐ Professional Education Committee

☐ Committee on General Education and Intercollegiate Programs

☐ Graduate Council

Signature (Routing on Reverse Side)  Date  9/24/2013

FS Course Change - 9/10/2010
Missouri State University—Curricular Proposal Program Change
Special Form for Identification of Public Affairs Capstone (PAC) Requirement

Hospitality and Restaurant Administration

September 23, 2013

BS and/or BAS in Hospitality and Restaurant Administration

Title of Major and Degree

List the course(s) which will satisfy the 3-hour Public Affairs Capstone Experience. Be specific—include course code, course number, title, and credit hours of each course.

HRA 499 Internship in Hospitality, 6 credits
HRA 490 Advanced Hospitality Leadership, 3 credits

Answer all following questions related to the course(s) entered above.

1. Does the course(s) currently exist? Enter yes or no.  
   Yes
   If no, a new course proposal form must be submitted and accompany this program change form.

2. If course(s) does exist, will a course change be needed (i.e., credit hours, description, etc.)? Enter yes or no.  
   Yes
   If yes, a course change form must be submitted and accompany this program change form.

3. Is the course(s) currently required in the program for all students? Enter yes or no.  
   Yes
   If no, the program must be revised. Attach a separate sheet with 1) present catalog description; 2) revised catalog description; and 3) complete new catalog information specifying the PAC Experience plus any other program changes related to the PAC.

4. Will all sections of the course(s) satisfy the PAC Experience? Enter yes or no.  
   Yes
   If no, specify which course(s) will be section-specific. Note: All service learning, study away, special topics, internships, and independent study courses will always be section-specific and will require special handling through the degree audit system.

5. Will a transfer equivalent of the course(s) satisfy the PAC Experience? Enter yes or no.  
   Yes
   Additional notes regarding any potential transfer equivalents.

Transfer equivalence will be made on a case-by-case basis.

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).

☐ College Council
☐ Professional Education Committee
☐ Committee on General Education and Intercollegiate Programs

☐ Graduate Council

(Date 9/23/13)

Signature

(Date 9/23/13)

(Routing on Reverse Side)
Missouri State University
Curricular Proposal Course Change or Deletion

Department: Hospitality and Restaurant Administration Date: September 23, 2013

Check one: This is a change to ___X__ an existing COURSE
____ an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>(Cut and paste from web catalog or use most recent description.)</td>
<td>(Cut and paste description again, strikethrough all deletions, and insert and bold new information.)</td>
</tr>
<tr>
<td>HRA 490 Advanced Hospitality Leadership</td>
<td>HRA 490 Advanced Hospitality Leadership</td>
</tr>
<tr>
<td>Prerequisite: senior standing; and MTH 130 or higher; and HRA 354 or concurrent enrollment; and Hospitality and Restaurant Administration major.</td>
<td>Prerequisite: senior standing; and MTH 130 or higher; and HRA 354 or concurrent enrollment; and Hospitality and Restaurant Administration major.</td>
</tr>
<tr>
<td>An in-depth investigation into leadership principles and practices required of professionals in the hospitality industry.</td>
<td>An in-depth investigation into leadership principles and practices required of professionals in the hospitality industry.</td>
</tr>
<tr>
<td>Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0</td>
<td>Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0</td>
</tr>
<tr>
<td>Typically offered: Fall, Spring</td>
<td>Typically offered: Fall, Spring</td>
</tr>
</tbody>
</table>

What is changing? Check all boxes that apply.

☐ Course Deletion ☐ Course Code ☐ Course Number ☐ Title ☐ Prerequisite

☐ Credit Hours/Contact Hours ☐ Periodicity X ☐ Description

Reason for Proposed Change or Deletion
This course is identified as meeting the Public Affairs capstone requirement.

How Did You Determine the Need For This Change or Deletion?
Vote from Faculty Senate

COMPLETE NEW CATALOG INFORMATION (typed)
HRA 490 Advanced Hospitality Leadership
Prerequisite: senior standing; and MTH 130 or higher; and HRA 354 or concurrent enrollment; and Hospitality and Restaurant Administration major.
An in-depth investigation into leadership principles and practices required of professionals in the hospitality industry.
This course includes a Public Affairs component.
Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0
Typically offered: Fall, Spring

☐ X ___ Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 3(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/94 for definitions of substantive/non-substantive changes.

✓ College Council
✓ Professional Education Committee
✓ Committee on General Education and Intercollegiate Programs
✓ Graduate Council

(All substantive course changes numbered 100-599 must go through College Council first. After approval, College Council will forward appropriate number of copies to the next committee/council or directly to the Faculty Senate if no further committee approval is needed. The last level of committee/council will forward two originally signed copies to the Faculty Senate.)

(Considers all substantive course changes for Professional Education courses and Teaching Methods courses.)

(Considers all substantive course changes for General Education and Intercollegiate Program proposals.)

(Considers all 600-900 level course changes.)

Signature: Stephanie Her
Department Head

Date: __9-23-13__

(Routing on Reverse Side) FS Course Change - 9/10/2010
Missouri State University
Curricular Proposal Course Change or Deletion

Department: Hospitality and Restaurant Administration

Date: September 23, 2013

Check one: This is a change to ___X__ an existing COURSE
___ an existing REGULAR (i.e. permanent) SECTION of a variable content course

<table>
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</tr>
<tr>
<td>HRA 499 Internship in Hospitality</td>
<td>HRA 499 Internship in Hospitality</td>
</tr>
<tr>
<td>Prerequisite: senior standing, and Hospitality and Restaurant Administration major; and permission.</td>
<td>Prerequisite: senior standing, and Hospitality and Restaurant Administration major; and permission.</td>
</tr>
<tr>
<td>Supervised experience in a cooperative program in hospitality. Student must gain experience/exposure in at least three positions during the internship. The student must be paid for the internship and must work a minimum of 750 hours.</td>
<td>Supervised experience in a cooperative program in hospitality. Student must gain experience/exposure in at least three positions during the internship. The student must be paid for the internship and must work a minimum of 750 hours. This course includes a Public Affairs component.</td>
</tr>
<tr>
<td>Credit hours: 6 Lecture contact hours: 0 Lab contact hours: 0</td>
<td>Credit hours: 6 Lecture contact hours: 0 Lab contact hours: 6</td>
</tr>
<tr>
<td>Typically offered: Upon demand</td>
<td>Typically offered: Upon demand</td>
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What is changing? Check all boxes that apply.

☐ Course Deletion  ☐ Course Code  ☐ Course Number  ☐ Periodicity  ☐ Title  ☐ Prerequisite  ☐ Description

☐ Credit Hours/Contact Hours

Reason for Proposed Change or Deletion
This course is identified as meeting the Public Affairs capstone requirement.

How Did You Determine the Need For This Change or Deletion?
Vote from Faculty Senate.

COMPLETE NEW CATALOG INFORMATION (typed)
HRA 499 Internship in Hospitality
Prerequisite: senior standing, and Hospitality and Restaurant Administration major; and permission.
Supervised experience in a cooperative program in hospitality. Student must gain experience/exposure in at least three positions during the internship. The student must be paid for the internship and must work a minimum of 750 hours. This course includes a Public Affairs component.
Credit hours: 6 Lecture contact hours: 0 Lab contact hours: 0
Typically offered: Upon demand

☐ X Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two originally-signed copies to Faculty Senate; 600- through 900-level courses: three originally-signed copies to Graduate Council. Graduate Council will give two copies to Faculty Senate after approval.

Substantive Change: Department routes according to ART VI, SEC 38(1-4) of Bylaws of the Faculty. Forward three originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If proposal needs to go through more than one council/committee, forward one additional form for each additional council/committee marked. See Senate Action 11-93/94 for definitions of substantive/non-substantive changes.

☐ College Council (All substantive course changes numbered 100-599 must go through College Council first. After approval, College Council will forward appropriate number of copies to the next committee/council or directly to the Faculty Senate if no further committee approval is needed. The last level of committee/council will forward two originally signed copies to the Faculty Senate.)

☐ Professional Education Committee (Considers all substantive course changes for Professional Education courses and Teaching Methods courses.)

☐ Committee on General Education and Intercollegiate Programs (Considers all substantive course changes for General Education and Intercollegiate Program proposals.)

☐ Graduate Council (Considers all 600-900 level course changes.)

Signature: ____________________________ Date: 9-23-13

(Routing on Reverse Side)
Missouri State University
Curricular Proposal Program Change or Deletion

Department: Mathematics  Date: 3/5/2013

Title of Program Affected: BSED, Secondary Ed., Math Area

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<tr>
<th>Major</th>
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<th>Option</th>
<th>Minor</th>
<th>Certificate</th>
<th>Certification</th>
<th>Academic Rules</th>
<th>Other</th>
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</tr>
</tbody>
</table>

Present Catalog Description:
(Cut and paste from web catalog or use most recent description.)

Revised Catalog Description:
(Cut and paste description again, strikethrough all deletions, and insert and bold new information.)

Attachment A

Attachment B

What is changing? Check all boxes that apply.

_ Title change
_ Course changes of under 18 hours
_ Course changes of 18 hours or more

From option to program (major)
From program (major) to option
Program or option deletion

Other Requirements

REASON FOR PROPOSED CHANGE
CSC 130, as the initial programming course, is more appropriate for the BSED in Mathematics. CSC 131 now has prerequisite CSC 130.

COMPLETE NEW CATALOG INFORMATION (Typed)

Attachment C

Total Hours: 125

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty Senate. Forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked).

If the program needs to go through more than one committee/council, forward one additional form for each additional council/committee marked.

X College Council
(Consider all undergraduate program changes affecting BS and MS in Education and Educational Specialist degrees)

X Professional Education Committee
(Consider all general education and multi-college program changes)

Committee on General Education and Intercollegiate Programs
(Consider all graduate-level program changes)

Graduate Council

Signature: [Signature]
Department Head: [Department Head]
Date: 3/5/2013

(Routing on Reverse Side)
Attachment A

Mathematics
Bachelor of Science in Education
(Certifiable grades 9-12)

A. General Education Requirements - see General Education Program and Requirements section of catalog
B. Major Requirements
2. Select two courses from:  MTH 503(3), 536(3), 540(3), 567(3)
3. Courses required from related areas:  CSC 121(3) or 125(4) or 131(4);  PHY 123(4) or 203(5)
C. Professional Education Requirements
1. MTH 409(3), 410(3), 493(5-6), 494(5-6)
2. Professional Education Required Core and Competencies - see Teacher Certification, Teacher Education Program and Secondary Education Requirements section of catalog

Attachment B

Mathematics
Bachelor of Science in Education
(Certifiable grades 9-12)

A. General Education Requirements - see General Education Program and Requirements section of catalog
B. Major Requirements
2. Select two courses from:  MTH 503(3), 536(3), 540(3), 567(3)
3. Courses required from related areas:  CSC 121(3) or 125(4) or 131(4);  PHY 123(4) or 203(5)
C. Professional Education Requirements
1. MTH 409(3), 410(3), 493(5-6), 494(5-6)
2. Professional Education Required Core and Competencies - see Teacher Certification, Teacher Education Program and Secondary Education Requirements section of catalog

Attachment C

Mathematics
Bachelor of Science in Education
(Certifiable grades 9-12)

A. General Education Requirements - see General Education Program and Requirements section of catalog
B. Major Requirements
2. Select two courses from:  MTH 503(3), 536(3), 540(3), 567(3)
3. Courses required from related areas:  CSC 121(3) or 125(4) or 131(4);  PHY 123(4) or 203(5)
C. Professional Education Requirements
1. MTH 409(3), 410(3), 493(5-6), 494(5-6)
2. Professional Education Required Core and Competencies - see Teacher Certification, Teacher Education Program and Secondary Education Requirements section of catalog
Missouri State University
CURRICULAR PROPOSAL
NEW COURSE (or new REGULAR SECTION of an existing variable content course)

Department: Mathematics

Date 08/26/13

Check one:  _X_ New COURSE   ___ New REGULAR (i.e. permanent) SECTION of an existing variable content course. If a new regular section of an existing variable topics course, to what existing course is it to be attached? __________

PROPOSED CATALOG DESCRIPTION

Description:  Students in this course explore the impact of major historical events, the mores of various societies, and basic human nature on the development of mathematical knowledge. Parallels will be drawn to events in today’s world to determine how each individual can foster the global advancement of knowledge. The level of mathematical and historical knowledge expected of incoming students does not exceed the level of traditional high school courses.

PURPOSE OF COURSE

Students can take this course to meet the Focus on Cultural Competency portion of the Public Affairs requirement for General Education. This course is intended to meet Goal 13 and Goal 14 of the MSU General Education Learning Goals:

- General Goal (13): Students will be able to recognize and consider multiple perspectives and cultures.
- General Goal (14): Students will be able to articulate their value systems, understand the ethical implication of their actions based on those values, and develop skills consistent with having a positive impact on individuals, groups, or communities.

RELATIONSHIP TO OTHER DEPARTMENTS

This course could promote collaboration between the mathematics department and others, such as history and geography. Since it is a new course for the Public Affairs goal, it should have no negative impact on any currently offered course.

DEPARTMENT: Route according to ART VI, SEC 3B(1-4) of Bylaws of the Faculty. Attach New Course Resource information form (FS 300a/05) and forward three typed, originally signed forms to one of the following (please check all that apply and send to first council/committee marked). If the course needs to go through more than one council/committee forward one additional form for each additional council/committee marked.

-  _X_ College Council  (All new course proposals numbered 100-599 must go through College Council first. After approval, College Council will forward appropriate number of copies to the next committee/council or directly to the Faculty Senate if no further committee approval is needed.)

-  ___ Professional Education Committee  (Considers all new courses affecting BS and MS in Education and Educational Specialist degrees)

-  _X_ Committee on General Education and Intercollegiate Programs  (Considers all general education and multi-college new course proposals)

-  ___ Graduate Council  (Considers all 600-, 700-, and 800-level new courses)

*If the course needs to go through more than one council/committee, forward one additional form for each additional council/committee marked.

Signature __________________________    Date __9/26/13_____________________

(Routing on Reverse Side)  FS New Course - 9/10/2010
NEW COURSE RESOURCE INFORMATION

Department  Mathematics

Course Number and Title  MTH 121: Multicultural Views of History and Mathematics

Anticipated Average Enrollment  60-100 students each spring semester

Maximum Enrollment Limit  44

Faculty Load Assignment  3  Equated Hours

1  Is another course being deleted?  If so, give course number and title.

   No course is being deleted.

2  What will this course require in the way of:

   Additional library holdings?  Several titles may be requested to increase the holdings in history of mathematics for the layman.

   Additional computer resources?  None anticipated. Access to web-conferencing tool like Adobe Connect may be requested.

   Additional or remodeled facilities?  None.

   Additional equipment or supplies?  None.

   Additional travel funds?  None.

   Additional faculty—general vs specialized?  None.

   Other additional expenses?  None.

3  If additional faculty are not required, how will faculty be made available to teach this course?

   This course will be offered in the spring semester, when the numbers are lower in gen ed courses.

List names of current faculty qualified to teach this course:  All Mathematics Department faculty – ranked and instructors

4  What is the anticipated source of students for this course?  (If from within the department, will students be taking this course in addition to or in place of other courses?  If from outside the department, which courses in other departments would most likely be affected?)

   This would be one option for students to meet the Gen Ed requirement for Public Affairs.

5  Other comments:
MTH 121: Multicultural Views of History and Mathematics

Proposed Syllabus

Mrs. Patti Blanton  
Office: Cheek 55M (northeast corner of the mezzanine)  
Office Hours: as below or by appointment  
Office Phone: 417-836-5317  
E-mail: pblanton@missouristate.edu

Type of Course: General Education – Breadth of Knowledge: Public Affairs Focus on Cultural Competence

Prerequisite: None

Description: Students in this course explore the impact of major historical events, the mores of various societies, and basic human nature on the development of mathematical knowledge. Parallels will be drawn to events in today’s world to determine how each individual can foster the global advancement of knowledge. The level of mathematical and historical knowledge expected of incoming students does not exceed the level of traditional high school courses.

Philosophy: In The Story of Mathematics, Richard Mankiewicz claims that “the evolution of science, philosophy and mathematics, all related, is far more important to the history of humanity than a parade of rulers and a procession of wars.” Many people today have no comprehension of what this evolutionary process has entailed. To help our students experience mathematics, and human knowledge in general, as an ongoing endeavor of humankind, this course is designed to explore the evolution of mathematical knowledge within the context of the culture and ethics of the times. Mathematical history can show us how this development has been affected by geography, wars, religion, society’s views on equity, and the perseverance of the human spirit and how our ethics and values of today can inhibit or encourage continued development of human knowledge. In our quest to reach this understanding, students will be guided and encouraged to seek out information from reliable sources and topical experts.

Purpose of the Course: Students can take this course to meet the Focus on Cultural Competency portion of the Public Affairs requirement for General Education. This course is intended to meet Goal 13 and Goal 14 of the MSU General Education Learning Goals:
- General Goal (13): Students will be able to recognize and consider multiple perspectives and cultures.
- General Goal (14): Students will be able to articulate their value systems, understand the ethical implication of their actions based on those values, and develop skills consistent with having a positive impact on individuals, groups, or communities.


**Additional Course Materials:** Along with the required textbook, the instructor and students will use written and on-line sources to explore particular topics in more depth and to enhance the cultural experience with visual and auditory experiences.

**Learning Objectives and Assessment:** This course meets the General Education Learning Goals as indicated below. These goals will be assessed through quizzes, exams, presentations and research papers. Data will be collected by instructors following departmental guidelines developed by the curriculum team for this course.

<table>
<thead>
<tr>
<th>MSU Learning Goal</th>
<th>MTH 121 Learning Objectives</th>
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<tbody>
<tr>
<td>Cultural Competence (Goal 13) #2: Understand, critically examine, and articulate key similarities and differences between their own cultural practices and perspectives and those of other cultures, past and present.</td>
<td>Students will explore various events in the history of mathematics, focusing on the culture of the times and how we can learn from those situations to support the advancement of knowledge in our times.</td>
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<td>Cultural Competence (Goal 13) #3: Identify the importance and best practices of developing skills for working/interacting with others.</td>
<td>Students will explore the competitive side of academic research as well as the occasional collaborations: Newton versus Leibniz; Tartaglia versus Cardano; Kepler and Brahe partnership; and, Einstein looks to the mathematicians of the day for assistance and finds what he needs within the new field of Non-Euclidean Geometry. Students will then consider how they can best support the advancement of human knowledge through their own actions and how society can best collectively support such advancement.</td>
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<tr>
<td>Cultural Competence (Goal 13) #4: Analyze the role that different languages, cultures, institutions, and beliefs have in shaping individual and collective behavior.</td>
<td>Students will re-create Eratosthenes’ approximation of the measure of the Earth in about 230 BCE and trace the development of knowledge related to our place in the universe. Attention will be given to the impact of religion on this topic and how humankind arrived at the point where the common person believed the earth to be flat. Then, students apply this to today’s world – how do our current beliefs, cultures and institutions shape the development of human knowledge?</td>
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<tr>
<td>Ethical Leadership (Goal 14) #1: Engage in self-evaluation of their personal values and the degree to which their ethical values and behaviors are congruent.</td>
<td>As students have the opportunity to see the impact of cultural mores and human actions on the development of mathematics over its history, they will be asked to evaluate their own ethical values and anticipate the effect their values would have on the development of human knowledge.</td>
</tr>
<tr>
<td>Ethical Leadership (Goal 14) #3: Identify areas of difficulty in responding to situations demanding ethical inquiry.</td>
<td>Cultural bias, gender bias, and religious intolerance have all had a part in the history of mathematics. Students will explore the impact of these throughout history and the level to which they appear to still be affecting the development of human knowledge today. How can we respond to these same situations today?</td>
</tr>
<tr>
<td>Ethical Leadership (Goal 14) #4: Analyze complex ethical dilemmas facing the world.</td>
<td>Students will explore the adage: “knowledge is power” and determine its accuracy and relevance in today’s world. Emphasis will be made on how students can help their world to best support the advancement of human knowledge.</td>
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</table>

**Pedagogical and Topical Aspects of the Course:** This course should be presented in a variety of contexts. It can be a blended course with students accessing factual information outside of class, then discussing and analyzing contexts within class. Virtual tours can be made to explore locations and artifacts. Guest experts from various departments across campus can present on specific topics.
Topics can include:

1. contributions of major figures, such as: ancient Greek mathematicians, Archimedes, Gauss, and Newton
2. contents of important ancient texts such as the Rhind Papyrus or the Archimedes Codex
3. the fragility of an axiomatic system – or why we have to prove everything
4. development of the Hindu-Arabic numeral system
5. mathematics related to wars
6. the impact of religion on the development of mathematical knowledge
7. mathematics developed to measure the earth and stars
8. the effects of gender bias throughout the development of mathematical knowledge
9. the effect of laws against homosexuality on the life of a mathematician who saved lives, and possibly countries in World War II
10. famous theorems and problems throughout history, such as: Eratosthenes’ approximation of the circumference of the earth, Euclid’s Fifth Postulate, the Pythagorean Theorem, Fermat’s Last Theorem.

Attendance: Due to the nature of this course, attendance to each class is critical. Students should make every effort to be in attendance at each session. In the event that you must miss class, you should contact the instructor for any items that were distributed during class. You should also contact a classmate to get any missed notes. In the event that the absence occurred on the day of an exam or a presentation that you are making, see below.

Homework and Quizzes: Homework may be given during any lesson. Unless stated otherwise, it will be due at the beginning of the class period immediately following assignment. A student will be granted two late assignments throughout the entire course, but you must request a date be extended by e-mailing the instructor.

Daily quizzes will be given at the discretion of the instructor. There is no make-up available for any of these quizzes.

Exams and Presentations: There will be a midterm and a final exam, both of which are cumulative in nature. ATTENDANCE IS MANDATORY ON THE DAY OF AN EXAM OR PRESENTATION!! PLAN BACK-UP TRANSPORTATION/CHILDCARE/ALARMS!!!! If a make-up exam option is granted, that exam may be more rigorous than the original exam.
Requirements to qualify to take a make-up exam or make a late presentation:

1. The instructor must be notified of the absence by e-mail or by office phone PRIOR TO THE START OF THE EXAM! The notification must be made as early as possible in the event of a schedule conflict that cannot be resolved. If notification prior to the exam was not possible, proper notification verifying that impossibility must be provided.

2. Documentation of absence MUST be provided! That documentation may include a doctor’s notification indicating that the student was too ill to attend class that day; a note from a coach or faculty sponsor indicating a required school activity on that day; or a police report showing date and time of an occurrence that precludes attendance to class.

3. The STUDENT must initiate a request for a make-up exam or a time for a late presentation and either of these must be completed within one week of the missed in-class activity. Situations requiring extended time must be discussed with the instructor.

Grading: The course grade will be maintained in Blackboard and it is the student’s right and responsibility to verify the accuracy of the entries. The grade is weighted according to the following scale:

<table>
<thead>
<tr>
<th>Category</th>
<th>Percent of Course Grade</th>
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</thead>
<tbody>
<tr>
<td>Homework and Quizzes</td>
<td>15%</td>
</tr>
<tr>
<td>Presentation/Project</td>
<td>20%</td>
</tr>
<tr>
<td>Research Paper</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Comprehensive Final</td>
<td>30%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
The course grade will be round to the nearest whole number and following grading scheme will be used:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td><strong>Excellent</strong></td>
<td>93 to 100%</td>
</tr>
<tr>
<td>A-</td>
<td>90 to 92%</td>
</tr>
<tr>
<td><strong>Good</strong></td>
<td>87 to 89%</td>
</tr>
<tr>
<td>B+</td>
<td>83 to 86%</td>
</tr>
<tr>
<td>B</td>
<td>80 to 82%</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td>77 to 79%</td>
</tr>
<tr>
<td>C+</td>
<td>73 to 76%</td>
</tr>
<tr>
<td>C</td>
<td>70 to 72%</td>
</tr>
<tr>
<td><strong>Inadequate</strong></td>
<td>67 to 69%</td>
</tr>
<tr>
<td>D+</td>
<td>60 to 66%</td>
</tr>
<tr>
<td><strong>Unacceptable</strong></td>
<td>Below 60%</td>
</tr>
</tbody>
</table>

**Dates for Dropping:** __________ is the deadline to drop or withdraw from a full semester class. The action of dropping the class is the responsibility of the student! If you stop attending this class but do not follow proper procedure for dropping the class, you will receive a failing grade and will continue all financial obligations.

**Academic Integrity:** Missouri State University is a community of scholars committed to developing educated persons who accept the responsibility to practice personal and academic integrity. You are responsible for knowing and following the university’s *Student Academic Integrity Policies and Procedures*, available at [www.missouristate.edu/policy/academicintegritystudents.htm](http://www.missouristate.edu/policy/academicintegritystudents.htm). You are also responsible for understanding and following any additional academic integrity policies specific to this class (as outlined below). Any student participating in any form of academic dishonesty will be subject to sanctions as described in this policy. If you are accused of violating this policy and are in the appeals process, you should continue participating in the class.

A current university student ID or valid photo driver’s license will be required for the first exam. For purposes of test security, any student leaving the room during an exam will not be allowed to re-enter or to continue with the exam. On the day of the exam, if a student wears a hat, that hat must not have a bill that projects in front of the student’s face. During any quiz or test, if a cell phone or a graphing calculator with CAS capability is present, when not specifically stated as allowed, the student will receive a zero on that assessment.
Nondiscrimination Policy: Missouri State University is an equal opportunity/affirmative action institution, and maintains a grievance procedure available to any person who believes he or she has been discriminated against. At all times, it is your right to address inquiries or concerns about possible discrimination to the Office for Equity and Diversity, Park Central Office Building, 117 Park Central Square, Suite 111, (417) 836-4252. Other types of concerns (i.e., concerns of an academic nature) should be discussed directly with your instructor and can also be brought to the attention of your instructor’s Department Head. Please visit the OED website at www.missouristate.edu/equity/.

Disability Accommodation Policy: To request academic accommodations for a disability, contact the Director of the Disability Resource Center, Plaster Student Union, Suite 405, (417) 836-4192 or (417) 836-6792 (TTY), www.missouristate.edu/disability. Students are required to provide documentation of disability to the Disability Resource Center prior to receiving accommodations. The Disability Resource Center refers some types of accommodation requests to the Learning Diagnostic Clinic, which also provides diagnostic testing for learning and psychological disabilities. For information about testing, contact the Director of the Learning Diagnostic Clinic, (417) 836-4787, http://psychology.missouristate.edu/lmc.

Electronic Communication Devices: In respect of the learning environment, all pagers, cell phones and other electronic communication devices (not for assistance of a disabled student) must be turned off during class. Entertainment media and all electronic communication devices are not allowed during instruction or testing times. No video or audio recording of the lectures or conferences can be made without the prior knowledge of the instructor. In the case that a recording is needed, that record is solely for the use of that student and is not to be shared in any electronic media.

Emergency Response Information: Students who require assistance during an emergency evacuation must discuss their needs with their professors and Disability Services. If you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible.

For additional information, students should contact the Office of Disability Services at 836-4192 (PSU 405), or Larry Combs, Interim Assistant Director of Public Safety and Transportation at 836-6576. For further information on Missouri State University’s Emergency Response Plan, please refer to the following website: http://www.missouristate.edu/safetran/erp.htm.