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

<table>
<thead>
<tr>
<th>Department/School</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>10/25/13</td>
</tr>
</tbody>
</table>

**Chemistry B.S. (Comprehensive and Non-Comprehensive)**  
**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Credit Hr - CHM 398</td>
<td>(Chemical Symposium)</td>
</tr>
<tr>
<td>1 Credit Hr - CHM 399</td>
<td>(Undergraduate Investigations) or CHM 397 (Cooperative Education in Chemistry)</td>
</tr>
<tr>
<td>1 Credit Hr - CHM 498</td>
<td>(Chemistry Careers)</td>
</tr>
</tbody>
</table>

**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.

   It is very rare for a student to transfer any of these courses, so in practice this is effectively a moot issue.

**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/School Director]  
**Date**  
**10/29/2013**

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

Department: Chemistry
Date: 10/25/2013

Title of Program Affected: Chemistry (Non-comprehensive) Bachelor of Science

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

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

Chemistry (Non-Comprehensive)
Bachelor of Science

A. General Education Requirements - see General Education Program and Requirements section of catalog
B. Major Requirements
1. CHM 160(4)*, 161(1)*, 170(3), 171(1), 302(5), 342(5), 343(5), 375(3), 395(1); CHM 315(4) or 306(3) and CHM 507(3) and 518(2); 492(4), 499(1), 502(2); and one hour from CHM 397, 399 or 499
2. Chemistry electives (8-10 hours) from one of the following categories:
   a. For a basic chemistry program without a specific area of emphasis, at least eight hours from CHM 352(3), 376(2), 399 or 499(2-3), 460(3), 509(2)
   b. For students with a strong interest in environmental chemistry: CHM 460(3), 461(3), 462(2)
   c. For students with a strong interest in biochemistry or pre-medicine: CHM 453(2), 552(3), 553(2)
   d. For a specific area of interest not included in categories a, b, or c: at least nine hours of chemistry courses numbered 300 or higher selected in consultation with the student’s academic advisor and approved by the department head.
3. Related science and mathematics requirements: MTH 211* and 280(10) or MTH 261* and 288(8) or MTH 227* and 288(6); PHY 123* and 124(8) or PHY 203* and 204(10)

*Will also count toward General Education Requirements

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

Chemistry (Non-Comprehensive)
Bachelor of Science

A. General Education Requirements - see General Education Program and Requirements section of catalog
B. Major Requirements
1. CHM 160(4)*, 161(1)*, 170(3), 171(1), 302(5), 342(5), 343(5), 375(3), 395(1)**; CHM 505(4) or 506(3) and CHM 507(3) and 508(2); 492(4), 499(1)**, 502(4); and one hour from CHM 397**, 399** or 499**
2. Chemistry electives (8-10 hours) from one of the following categories:
   a. For a basic chemistry program without a specific area of emphasis, at least eight hours from CHM 352(3), 376(2), 399 or 499(2-3), 460(3), 509(2)
   b. For students with a strong interest in environmental chemistry: CHM 460(3), 461(3), 462(2)
   c. For students with a strong interest in biochemistry or pre-medicine: CHM 453(2), 552(3), 553(2)
   d. For a specific area of interest not included in categories a, b, or c: at least nine hours of chemistry courses numbered 300 or higher selected in consultation with the student’s academic advisor and approved by the department head.
3. Related science and mathematics requirements: MTH 261* and 280(10) or MTH 261* and 288(8) or MTH 287* and 288(6); PHY 123* and 124(8) or PHY 203* and 204(10)

*Will also count toward General Education Requirements

**Will also count toward Public Affairs Requirements

C. Minor Required (or second major)
D. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog
E. Public Affairs Requirements: CHM398 and 498 (2); CHM399 or 397(1)

What is changing? Check all boxes that apply.

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

REASON FOR PROPOSED CHANGE
This satisfies the new program requirement for a capstone experience in public affairs.

COMPLETE NEW CATALOG INFORMATION (Typed)

Chemistry (Non-Comprehensive)
Bachelor of Science

A. General Education Requirements - see General Education Program and Requirements section of catalog
B. Major Requirements
   1. CHM 160(4)*, 161(1)*, 170(3), 171(1), 302(5), 342(5), 343(3), 375(3), 398(1)**, CHM 505(4) or 506(3) and CHM 307(3) and 308(2); 492(0), 498(1)**, 502(4); and one hour from CHM 397**, 399** or 499**
   2. Chemistry electives (8-10 hours) from one of the following categories:
      a. For a basic chemistry program without a specific area of emphasis, at least eight hours from CHM 352(3), 376(2), 399 or 499(2-3), 460(3), 509(2)
      b. For students with a strong interest in environmental chemistry: CHM 460(3), 461(3), 462(2)
      c. For students with a strong interest in biochemistry or pre-medicine: CHM 452(3), 453(2), 552(3), 553(2)
      d. For a specific area of interest not included in categories a, b, or c: at least nine hours of chemistry courses numbered 300 or higher selected in consultation with the student's academic advisor and approved by the department head.
   3. Related science and mathematics requirements: MTH 261* and 288(10) or MTH 261* and 288(8) or MTH 287* and 288(6); PHY 123* and 124(8) or PHY 203* and 204(10)

**Will also count toward General Education Requirements

**Will also count toward Public Affairs Requirements

C. Minor Required (or second major)
D. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog
E. Public Affairs Requirements: CHM398 and 498 (2); CHM399 or 397(1)

Total Hours 69-87

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, 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
Department Head

(Routing on Reverse Side)

Date 10/29/2013

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

Department: Chemistry
Date: 10/25/2013

Title of Program Affected: Chemistry (Comprehensive) Bachelor of Science

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

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

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

B. Major Requirements


2. Related science and mathematics requirements: MTH 287* and 288(6) or MTH 261* and 280(10) or MTH 261* and 288(8); PHY 123* and 124(8) or PHY 203* and 204(10); Recommended CSC 111(3)*

3. Complete requirements in one of the following options:

   a. Biochemistry: This program is designed for students preparing for a career in medicine or graduate study in biochemistry. Required courses: CHM 399(1-3) or 499(1-3), 453(2), 552(3), 553(2); BIO 121(4)*, 205(4), 209(4)
   Suggested electives: BIO 310(5).
   Premedical students should also take courses in anatomy and physiology.

   b. Graduate School: This program is designed for students preparing for graduate study in chemistry. Required courses: CHM 376(2), 499(1-3), 509(2); Select one: CHM 514(3), 542(3), 552(3). Suggested electives: one year foreign language

   c. Industrial: This program is designed for students preparing for industrial positions upon completion of the B.S. degree, but who wish to be prepared for future entry into graduate school. Required courses: CHM 376(2), 509(2), 514 or 542(3), four hours selected from 397(2), 399(1-3), 499(1-3)

   *Will also count toward General Education Requirements

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

What is changing? Check all boxes that apply.

- Title change  ___ From option to program (major)  ___ Other 

- Course changes of under 18 hours  ___ From program (major) to option  

- Course changes of 18 hours or more  ___ Program or option deletion

REASON FOR PROPOSED CHANGE

This satisfies the new program requirement for a capstone experience in public affairs.

COMPLETE NEW CATALOG INFORMATION (Typed)
A. General Education Requirements - see General Education Program and Requirements section of catalog
B. Major Requirements
   1. CHM 169(4)*, 161(1)*, 170(3), 171(1), 302(5), 342(5), 345(5), 375(3), 398(1)**, 452(3), 492(0), 498(1)**,
      502(4), 506(3), 507(3), 508(2), 575(3)
   2. Related science and mathematics requirements: MTH 287* and 288(6) or MTH 261* and 288(10) or MTH 261*
      and 288(8); PHY 123* and 124(8) or PHY 203* and 204(10); Recommended CSC 111(3)*
   3. Complete requirements in one of the following options:
      a. Biochemistry: This program is designed for students preparing for a career in medicine or graduate study in
         biochemistry. Required courses: CHM 399(1-3)** or 499(1-3), 453(2), 552(3), 553(2); BIO 121(4)*, 225(4),
         320(4) Suggested electives: BIO 310(3). Premedical students should also take courses in anatomy and
         physiology.
      b. Graduate School: This program is designed for students preparing for graduate study in chemistry. Required
         courses: CHM 376(2), 499(1-3)**, 509(2); Select one: CHM 514(3), 542(3), 552(3). Suggested electives: one
         year foreign language
      c. Industrial: This program is designed for students preparing for industrial positions upon completion of the
         B.S. degree, but who wish to be prepared for future entry into graduate school. Required courses: CHM
         376(2), 509(2), 514 or 542(3), four hours selected from 392(2)**, 399(1-3)**, 492(1-3)

*Will also count toward General Education Requirements

**Will also count toward Public Affairs Requirements

C. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog
D. Public Affairs Requirements: CHM398 and 498 (2); CHM 399 or 397 or 499(1)

Total Hours 69-87

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
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)

(Considers all graduate-level program changes)

Signature

Date 10/29/2013

Department Head

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

Chemistry 10/25/13
Department/School Date
Chemistry Education (BSED)
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.

SCI 214(1) Introduction to Science Teaching in the 21st Century
SCI 314(3) Techniques and Technology in Science Laboratory Teaching
SCI 414(3) Teaching of Secondary School Natural Science
SCI 493(6) Supervised Teaching (Secondary Science)
SCI 494(6) Supervised Teaching (Secondary Science)

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.
It is very rare for a student to transfer any of these courses, so in practice this is effectively a moot issue.

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 __________________________ Date ____________
Department Head/School Director

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

Department: Chemistry
Date: 10/25/2013

Title of Program Affected: Bachelor of Science in Chemistry Education (BSED)

<table>
<thead>
<tr>
<th>Major</th>
<th>Comprehensive Major</th>
<th>Option</th>
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<tr>
<td>Present Catalog Description</td>
<td>Revised Catalog Description</td>
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<td></td>
</tr>
</tbody>
</table>
(Cut and paste from web catalog or use most recent description.) |
(Cut and paste description again, strikethrough all deletions, and insert and bold new information.) |
A. 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); CHM 342(5) and CHM 343(5) or CHM 342(5) and CHM 344(5); CHM 302(5), 352(3), 435(2), 460(3), 505(4)
Note: Students seeking American Chemical Society certification must take either CHM 342 and 343, or CHM 342 and 344.

2. Related Requirements (22 hours): PHY 124(4), 124(4); SCI 305(3); BIO 121(4); GLG 110(4) or GLG 171(4); MTH 287(3)

3. Complete the requirements in one of the following grades 9-12 certification areas:
   a. Categorical Science (3 hours): CHM 375(3)
   b. Unified Science (13 hours): CHM 463(1); BIO 122(4); GLG 110(4); GRY 135(4)

C. 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

D. 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.

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

F. 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.

G. 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.
include both Missouri State and transfer grades.

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 program (major) to option

Program or option deletion

Other________________________

REASON FOR PROPOSED CHANGE

This satisfies the new program requirement for a capstone experience in public affairs.

COMPLETE NEW CATALOG INFORMATION (Typed)

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

A. 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); CHM 160(4) and 161(1) or PHY 123(4) or GLG 110(4) or GLG 171(4); MTH 287(3)

H. Public Affairs Requirements. The following required courses can be used to meet both the Public Affairs and Major Requirements: SCI 214(1), 314(3), 414(3), 493(6), 494(6)

B. Major Requirements:

1. Core (31-36 hours): CHM 160(4), 161(1), 170(3), 171(1); CHM 200(5), or CHM 342(5) and CHM 343(5), or CHM 342(5) and CHM 344(3); CHM 302(5), 352(3), 435(2), 460(3), 505(4)

Note: Students seeking American Chemical Society certification must take either CHM 342 and 343, or CHM 342 and 344.

2. Related Requirements (22 hours): PHY 123(4), 124(4); SCI 505(3); BIO 121(4); GLG 110(4) or GLG 171(4); MTH 287(3)

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

a. Categorical Science (3 hours): CHM 375(3)

b. Unified Science (13 hours): CHM 463(1); BIO 122(4); GLG 110(4); GRY 135(4)

C. 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

D. 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.

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

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___x___ 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 10/30/2013
Department Head

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

Geography Geology & Planning - Natural & Applied Sciences
Department/School

B.A. in Geography
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.

GRY 498 Placement Seminar in Geography, Geospatial Sciences and Planning (1) plus either GRY 301 Geography of the Ozarks (3) or GRY 353 Geographic Field Studies (2) or GRY 470 Field Studies in Geography (2)

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
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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.

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

[ ] Graduate Council
(Considers all graduate-level program changes)

Signature [Signature]
Department Head/School Director

Date 10/09/2013
(Routing on Reverse Side)

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

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<td>Department/School</td>
<td>Date</td>
</tr>
<tr>
<td>B.S. in Geography</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.

| GRY 498 Placement Seminar in Geography, Geospatial Sciences and Planning (1) plus either GRY 301 Geography of the Ozarks (3) or GRY 353 Geographic Field Studies (2) or GRY 470 Field Studies in Geography (2) |

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).

- **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:** 10/29/2013  
**Department Head/School Director**  
(Routing on Reverse Side)  
**FS Program Change - 9/10/2010**
Missouri State University—Curricular Proposal Program Change
Special Form for Identification of Public Affairs Capstone (PAC) Requirement

Geography Geology & Planning - Natural & Applied Sciences

October 29, 2013

B.S. in Geology - Comprehensive

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.

GLG 358 (3) -- Writing II: Reporting Geological Information

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).

x College Council

Professional Education Committee

Committee on General Education and Intercollegiate Programs

Graduate Council

Signature 

Department Head/School Director

Date 10/29/2013

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

Geography Geology & Planning - Natural & Applied Science

October 29, 2013

B.S. in Geology - Non comprehensive

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.

GLG 358 (3) -- Writing II: Reporting Geological Information

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.

[Signature]  
Department Head/School Director

(Date) 10/29/2013

Routing on Reverse Side

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

Geography Geology & Planning - Natural & Applied Sciences

Department/School

October 29, 2013

Date

B.S. in Geospatial Sciences

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.

GRY 498 Placement Seminar in Geography, Geospatial Sciences and Planning (1) plus either GRY 301 Geography of the Ozarks (3) or GRY 353 Geographic Field Studies (2) or GRY 470 Field Studies in Geography (2)

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]
Department Head/School Director

Date: 10/29/2013
(Routing on Reverse Side)
Missouri State University—Curricular Proposal Program Change
Special Form for Identification of Public Affairs Capstone (PAC) Requirement

Geography Geology & Planning - Natural & Applied Sciences
Department/School
October 29, 2013
Date

B.S. Ed. In Earth Science Education
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.

SCI 493 (B) -- Supervised Teaching

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 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.

- [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)

- [X] Professional Education Committee
  (Consider all program changes affecting BS and MS in Education and Educational Specialist degrees)

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

- Graduate Council
  (Consider all graduate-level program changes)

Signature  ____________________________  Date  10/29/2013
Department Head/School Director

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

Geography Geology & Planning - Natural & Applied Sciences

October 29, 2013

Date

B.S. In Planning

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.

PLN 572 (4) -- Community Planning Practicum

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
   (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 10/29/2013

Department Head/School Director

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

Department: Geography, Geology, and Planning
Date: October 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 348 Geomorphology</td>
<td>GRY 348 Geomorphology</td>
</tr>
<tr>
<td>Prerequisite: GRY 142 or GLG 110 or both GLG 171 and GLG 172. Processes of landform development. Erosional and depositional environments created by water, wind, and ice. Hazards and limitations associated with various landforms. Field trips required. 3(2-2) F.</td>
<td>Prerequisite: GRY 142 or GLG 110 or both GLG 171 and GLG 172. Processes of landform development. Erosional and depositional environments created by water, wind, and ice. Hazards and limitations associated with various landforms. Geomorphology is the study of the origin, composition, and spatial distribution of surface landforms and their formative processes such as tectonic forces, chemical and physical weathering, and erosion and deposition of by water, wind, and ice. Emphasis is on geomorphic processes and landform development, methods of landform analysis, and environmental management. Case study approach is used to apply geomorphic concepts to understanding environmental hazards and sustainability and the role of humans as geomorphic agents. Field trips required. 3(2-2) 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
To make the increased emphasis on environmental issues that has been incorporated into this course over the past several years.

How Did You Determine the Need For This Change or Deletion?
To make catalog description match current course offering.

COMPLETE NEW CATALOG INFORMATION (typed)

GRY 348 Geomorphology
Prerequisite: GRY 142 or GLG 110 or both GLG 171 and GLG 172. Geomorphology is the study of the origin, composition, and spatial distribution of surface landforms and their formative processes such as tectonic forces, chemical and physical weathering, and erosion and deposition of by water, wind, and ice. Emphasis is on geomorphic processes and landform development, methods of landform analysis, and environmental management. Case study approach is used to apply geomorphic concepts to understanding environmental hazards and sustainability and the role of humans as geomorphic agents. Field trips required. 3(2-2) F.

Check if this is a non-substantive change. Distribution for non-substantive changes of 100- through 500-level courses: two original signed copies to Faculty Senate; 600- through 500-level courses: three original 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 original 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
(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: 10/26/2013

(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  October 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>
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<th>Revised Catalog Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLN 372 Planning Theory and Ethics</td>
<td>PLN 372 Planning Theory and Ethics</td>
</tr>
<tr>
<td>This course aims to introduce students to the theories of city and regional planning. Specifically, it examines the need for theory in planning and overviews the evolution of planning paradigms from the beginning of the 20th century to the present. Additionally, the following issues are investigated: why plan, how to planners plan, how can planning be achieved in a pluralistic society; what are the values and ethics of planners? Finally, a major aim is for students to appreciate the link between theory and praxis. 3(3-0) S.</td>
<td>This course aims to introduce students to the theories of city and regional planning. Specifically, it examines the need for theory in planning and overviews the evolution of planning paradigms from the beginning of the 20th century to the present. Additionally, the following issues are investigated: why plan, how to planners plan, how can planning be achieved in a pluralistic society; what are the values and ethics of planners? Finally, a major aim is for students to appreciate the link between theory and praxis. 3(3-0) S.</td>
</tr>
</tbody>
</table>

What is changing? Check all boxes that apply.
- [ ] Course Deletion  
- [ ] Course Code  
- [ ] Credit Hours/Contact Hours  
- [ ] Title  
- [ ] Prerequisite  
- [ ] Description

Reason for Proposed Change or Deletion

This course has included a field trip for several years. The proposed change to the catalog description is intended to make prospective students aware of this requirement prior to registering for the course.

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

To make catalog description match current course offering.

COMPLETE NEW CATALOG INFORMATION (typed)

PLN 372 Planning Theory and Ethics

This course aims to introduce students to the theories of city and regional planning. Specifically, it examines the need for theory in planning and overviews the evolution of planning paradigms from the beginning of the 20th century to the present. Additionally, the following issues are investigated: why plan, how to planners plan, how can planning be achieved in a pluralistic society; what are the values and ethics of planners? Finally, a major aim is for students to appreciate the link between theory and praxis. Field trip required. 3(3-0) 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.

_X_ 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  

(Routing on Reverse Side)  

Date

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

Department: Hospitality and Restaurant Administration    Date: October 25, 2013

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

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

Present Course Code and Number: HRA 426    Course Title: Food and Beverage Management

Revised Catalog Description (Copy/paste present description from online catalog, strike through all deletions, and insert/bold new information.)

HRA 426 Food and Beverage Management
Prerequisite: HRA 321, MTH 130; and junior standing.
A continuation of the student's familiarization with food service components in the hospitality industry. Menu, planning, pricing, food service accounting, wage and labor cost control, purchasing, portion control, advertising, sales and other food service principles, practices and techniques are analyzed.
Credit hours: 3
Lecture contact: 3
Lab contact: 0
Typically offered: Fall, Spring

Complete New Catalog Information
HRA 426 Food and Beverage Management
Prerequisite: HRA 321, MTH 130; and junior standing.
A continuation of the student's familiarization with food service components in the hospitality industry. Menu, planning, pricing, food service accounting, wage and labor cost control, purchasing, portion control, advertising, sales and other food service principles, practices and techniques are analyzed.
Credit hours: 3
Lecture contact: 3
Lab contact: 0
Typically offered: Fall, Spring

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
The course requires a mastery of contemporary math.

How Did You Determine the Need For This Change or Deletion?
Students who haven’t completed Math 130 struggle with the material.

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; 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 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.

X 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: 10/25/2013

(Routing on Reverse Side)
Dean Jahnke—

We have added Math 130 as the prerequisite to HRA 426 Food and Beverage Management as we have found that students who haven’t taken contemporary math struggle in the course.
Missouri State University—Curricular Proposal Program Change
Special Form for Identification of Public Affairs Capstone (PAC) Requirement

Mathematics

Department/School
Mathematics-BS Comprehensive, Mathematics-BS Noncomprehensive, Mathematics-BA Noncomprehensive

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.

- MTH 503 Advanced Calculus I, 3 credit hours
- MTH 532 Abstract Algebra, 3 credit hours
- MTH 540 Statistical Theory I, 3 credit hours
- MTH 497 Topics, 1 credit hour

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

1. Does the course(s) currently exist? Enter yes or 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.
   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.
   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.
   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.
   (1) YES;
   (2) NO;
   (3) YES;
   (4) YES.

5. Will a transfer equivalent of the course(s) satisfy the PAC Experience? Enter yes or no.
   Additional notes regarding any potential transfer equivalents.
   (5) NO. Transfer students come into our program before Junior level status and would need to take all of the above courses to complete a program in mathematics. Exceptions should be made on an individual 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).
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, CEGP, 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: ____________________________
Department Head/School Director

Date: 10/23/2013

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

Mathematics

Department/School
Mathematics BSED

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.

MTH 493 Supervised Teaching, 3 credit hours
MTH 494 Supervised Teaching, 3 credit hours
MTH 497 Topics, 1 credit hour

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

1. Does the course(s) currently exist? Enter yes or 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. 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. 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. 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.
   (1) Yes;
   (2) No;
   (3) Yes
   (4) Yes

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

All of these courses are taken in the Senior year; it is highly unlikely that students will have transfer credit.

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

Signature ___________________________  Date 10/2/2013

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

Physics, Astronomy and Materials Science
October 29, 2013
Department/School

BS Physics
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.

PHY 385 Experiments in Modern Physics (2 credit hours)
PHY 386 Undergraduate Research I (1 credit hour)
PHY 486 Undergraduate Research II (1 credit hour)

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.  no
   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, 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 Intercollege Programs
  (Considers all general education and multi-college program changes)

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

Signature
Department Head/School Director
Date 10-29-13

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

**Physics, Astronomy and Materials Science**

**Department/School**

**BS Ed Physics**

**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.

**SCI 493 Supervised Teaching (Secondary Science) (6 credit hours)**

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.**
   - **No**
   - 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).

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

**Signature**

__Department Head/School Director__

(Date) **10-25-13**

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

Department: Natural and Applied Sciences

Title of Program Affected: Master of Natural and Applied Science (Interdisciplinary Program)

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

Revised Catalog Description (cut and paste present description from online catalog, strikethrough all deletions, and insert and bold new information)

The Professional Science Master Designation (Old)

A student who selects business as the second area of concentration and completes the internship option of the research requirements will receive the Professional Science Master (PSM) designation. The PSM program is recognized by the National Council of Graduate Schools.

The Professional Science Master Designation (New)

A student is eligible to receive the Professional Science Master (PSM) designation if she/he completes the internship option of the research requirements and three courses from the following seven offered through the College of Business: ACC 600, CIS 600, FIN 600, LAW 600, MGT 600, MKT 600, QBA 600. The PSM designation is approved and recognized under the MNAS degree program by the National Council of Graduate Schools.

Complete New Catalog Description

See Attachment A

Total Hours: 32

What is changing? Check all boxes that apply.

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

Reason for Proposed Change

Clarify Degree Requirements

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

X 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 __________________________

(Routing on Reverse Side)