

1

Missouri State University
Curricular Proposal Program Change or Deletion

Department: BIOLOGY

Date: December 15, 2014

Title of Program Affected: Biology (Comprehensive) (BS)

Type of Program: Major ___ Comprehensive Major X 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)

See attachment A

Complete New Catalog Description

See attachment B

Total Hours 67-87 ___

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 Update course list in several sub-requirements.
- Other Correct errors in credit hours.

Reason for Proposed Change

Four courses (BIO 505, BIO 551, BIO 561, PHI 325) are being added as appropriate choices within sub-requirements of the three degree options. As a result of previous changes to course menus the credit hour requirements for the three options are not accurate, and these are being corrected and clarified. Several errors in the credit hours of individual courses are also corrected.

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 [Signature]
Department Head

Date 12-15-14

(Routing on Reverse Side)

FS Program Change - 10/8/2013

Attachment A: Revised Catalog Description

1

Biology (Comprehensive)

Bachelor of Science

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

B. 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 116(4) and 117(1), or CHM160(4) and 161(1); consult options below before selecting course
6. CHM 201(3) and 202(2), or 302(5) or 342(5); consult options below before selecting course
7. Public Affairs Capstone Experience will be fulfilled by completion of BIO 494(1) and two additional courses from the following: BIO 300(1), 355(4), 369(4), 370(4), 373(3), 398(1), 399(1-3), 485(1-3), 498(3), 499(1-3), 501(2), 505(3), 508(3), 509(4), 511(4), 512(3), 520(3), 527(1-4), 539(2), 547(3), 561(2), 573(3), 574(2), 575(3), 576(3), 577(3), 578(4), 579(4), 584(3), 589(3). Courses may also be used to satisfy option requirements.

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.

a. Environmental Biology and Evolution (33-38 71-85 hours total)

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), 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), 556(3), 587(3), 588(3)
3. Complete courses in population biology totaling at least 3 hours from the following: BIO 436(4), 505(3), 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(34), 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(34), 527(1-4), 562(34), 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 above 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 BIO 551(2) or PSY 527(3)
8. Related requirements in Chemistry: CHM 160(4), 161(1), 170(3), 171(1)
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 from related fields of study: ECO 540(3), LAW 537(3), PHI 302(3), PHI 325(3), PLS 555(3), PSY 379(3)

b. Microbiology and Biotechnology (33-42 71-87 hours total)

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), 505(3) or 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 201(3) and 202(2), or CHM 342(5) and 343(5), or CHM 342(5) and 344(3); CHM 352(3), or CHM 452(3) and 552(3)

c. Wildlife Biology (30-47 67-87 hours total)

1. Required courses: BIO 320(4) or 361(4), 369(4)
2. Complete two courses in plant biology from: BIO 334(3), 339(2), 530(3), 544(4)
3. Complete three courses in animal biology from: BIO 370(4), 371(3), 380(5), 571(4), 573(3), 574(2), 575(3), 576(3), 577(3)
4. Complete a minimum of 5 hours in management from: BIO 373(3), 485(1-3), 509(34), 532(3), 562(4), 589(3)
5. Complete two courses in ecology and evolution from: BIO 436(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), BIO 561(2), CRM 210(3), ECO 540(3), GRY 108(3), GRY 351(2), PHI 302(3), PLS 555(3), LAW 537(3)
7. Complete one course in earth/environmental science: AGN 215(3), CHM 260(3), GLG 110(4), GRY 142(4)

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

Attachment B: Complete New Catalog Description

Biology (Comprehensive)
Bachelor of Science

- A. General Education Requirements - see General Education Program and Requirements section of catalog
- B. Major Requirements
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 116(4) and 117(1), or CHM160(4) and 161(1); consult options below before selecting course
 6. CHM 201(3) and 202(2), or 302(5) or 342(5); consult options below before selecting course
 7. Public Affairs Capstone Experience will be fulfilled by completion of BIO 494(1) and two additional courses from the following: BIO 300(1), 355(4), 369(4), 370(4), 373(3), 398(1), 399(1-3), 485(1-3), 498(3), 499(1-3), 501(2), 505(3), 508(3), 509(4), 511(4), 512(3), 520(3), 527(1-4), 539(2), 547(3), 561(2), 573(3), 574(2), 575(3), 576(3), 577(3), 578(4), 579(4), 584(3), 589(3). Courses may also be used to satisfy option requirements.
 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.
 - a. Environmental Biology and Evolution (71-85 hours total)
 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), 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), 556(3), 587(3), 588(3)
 3. Complete courses in population biology totaling at least 3 hours from the following: BIO 436(4), 505(3), 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(4), 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(4), 527(1-4), 562(4), 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 above 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 BIO 551(2) or PSY 527(3)
 8. Related requirements in Chemistry: CHM 160(4), 161(1), 170(3), 171(1)
 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 courses from related fields of study: ECO 540(3), LAW 537(3), PHI 302(3), PHI 325(3), PLS 555(3), PSY 379(3)
 - b. Microbiology and Biotechnology (71-87 hours total)
 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), 505(3) or 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 201(3) and 202(2), or CHM 342(5) and 343(5), or CHM 342(5) and 344(3); CHM 352(3), or CHM 452(3) and 552(3)
 - c. Wildlife Biology (67-87 hours total)
 1. Required courses: BIO 320(4) or 361(4), 369(4)
 2. Complete two courses in plant biology from: BIO 334(3), 339(2), 530(3), 544(4)
 3. Complete three courses in animal biology from: BIO 370(4), 371(3), 380(5), 571(4), 573(3), 574(2), 575(3), 576(3), 577(3)
 4. Complete a minimum of 5 hours in management from: BIO 373(3), 485(1-3), 509(4), 532(3), 562(4), 589(3)
 5. Complete two courses in ecology and evolution from: BIO 436(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), BIO 561(2), CRM 210(3), ECO 540(3), GRY 108(3), GRY 351(2), PHI 302(3), PLS 555(3), LAW 537(3)
 7. Complete one course in earth/environmental science: AGN 215(3), CHM 260(3), GLG 110(4), GRY 142(4)
- C. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

2

Missouri State University Curricular Proposal Course Change or Deletion

Department Biology

Date 10/30/14

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

Present Course Code and Number BIO 320 Course Title Introduction to Cellular Biology

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

Prerequisite: "C-" or better in BIO 235 or BMS 230 and BMS 232 or BMS 231; and "C-" or better in [CHM 201 and 202] or CHM 342.

Introduction to the structure and function of cells with an emphasis on eukaryotes. Supplemental course fee.

Complete New Catalog Information

Prerequisite: "C-" or better in BIO 235 or BMS 230 and BMS 232 or BMS 231; and "C-" or better in [CHM 201 and 202] or CHM 342.

Introduction to the structure and function of cells with an emphasis on eukaryotes. Supplemental course fee.

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

BMS230 is the BMS genetics course without a lab. To succeed in BIO320, students will benefit from having previous hands-on experience from a genetics laboratory experience. This change corrects a previous oversight by adding the laboratory requirement (BMS 232) to the human genetics lecture course (BMS 230) and adding that the combined lecture/lab course (BMS 231) is also an acceptable prerequisite. Note that BIO 235 is a combined lecture/lab course

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

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

We occasionally have had students who took BMS231 who were not able to register for BIO 320 because they lacked the stated prerequisite. When completing the proposal to add BMS 231 as a prerequisite option, we noticed the oversight that had omitted the lab component from the previous requirement. Note that this change should not affect BMS majors because they are required to take a Cell Biology course in the BMS department.

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
- Professional Education Committee
- Committee on General Education and Intercollegiate Programs
- Graduate Council (Considers all 600-900 level course changes.)

Signature [Signature]
Department Head

Date 12-9-14

(Routing on Reverse Side)

3

Missouri State University
Curricular Proposal Course Change or Deletion

Department Geography, Geology & Planning Date November 12, 2014

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

Present Course Code and Number PLN 372 Course Title Planning Theory and Ethics

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

PLN 372 Planning Theory and Ethics

Prerequisite: PLN 371. 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.** Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0 Typically offered: Spring

Complete New Catalog Information

PLN 372 Planning Theory and Ethics

Prerequisite: PLN 371. 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. Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0 Typically offered: Spring

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

Both PLN 371 and PLN 372 are required for the B.S. major in Planning. The subject matter of PLN 372 follows logically and builds on the subject matter of PLN 371.

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

In general, students who take PLN 372 before PLN 371 do not perform as well as students who take PLN 371 first.

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 Thomas G. Olyffe
Department Head

Date 11/25/2014

4

Missouri State University
Curricular Proposal Course Change or Deletion

Department Geography, Geology & Planning Date November 12, 2014

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

Present Course Code and Number PLN 576 Course Title Site Planning Studio

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

PLN 576 Site Planning and Design Studio
Prerequisite: ~~PLN 271 371 an and PLN 372 571.~~ Lecture studio focusing **Focuses** on the principles and processes of urban design and site specific design requirements **planning approaches in evaluating, planning, and designing sites within the context of natural and cultural systems.** Students will design site plans for specific uses such as subdivisions, shopping centers and parks for public presentation. **Provides a foundation for conducting any type of site planning project. A specific site in the region is studied and plans are developed for present and future use.** May be taught concurrently with PLN 676. Cannot receive credit for both PLN 676 and PLN 576. Credit hours: 4 Lecture contact hours: 2 3 Lab contact hours: 4 2 Typically offered: Fall

Complete New Catalog Information.

PLN 576 Site Planning and Design Studio
Prerequisite: ~~PLN 371 and PLN 571.~~ Focuses on the principles of site planning approaches in evaluating, planning, and designing sites within the context of natural and cultural systems. Provides a foundation for conducting any type of site planning project. A specific site in the region is studied and plans are developed for present and future use. May be taught concurrently with PLN 676. Cannot receive credit for both PLN 676 and PLN 576. Credit hours: 4 Lecture contact hours: 3 Lab contact hours: 2 Typically offered: Fall

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 bring catalog description in line with current course content.

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

This course has evolved over the past several years, in response to feedback both from alumni and accreditation site-visit teams.

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 Thomas G. Plym
Department Head
(Routing on Reverse Side)

Date 11/25/2014

④

Missouri State University
Curricular Proposal Course Change or Deletion

Department Geography, Geology & Planning Date November 12, 2014

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

Present Course Code and Number PLN 676 Course Title Site Planning Studio

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

PLN 676 Site Planning and Design Studio
Recommended prerequisite: PLN ~~271~~ 371 and PLN ~~372~~ 571. ~~Lecture studio focusing~~ **Focuses** on the principles and processes of urban design and site specific design requirements **planning approaches in evaluating, planning, and designing sites within the context of natural and cultural systems.** ~~Students will design site plans for specific uses such as subdivisions, shopping centers and parks for public presentation.~~ **Provides a foundation for conducting any type of site planning project. A specific site in the region is studied and plans are developed for present and future use.** May be taught concurrently with PLN 576. Cannot receive credit for both PLN 576 and PLN 676. Credit hours: 4 Lecture contact hours: ~~2~~ 3 Lab contact hours: 4 2 Typically offered: Fall

Complete New Catalog Information

PLN 676 Site Planning and Design Studio
Recommended prerequisite: PLN 371 and PLN 571. Focuses on the principles of site planning approaches in evaluating, planning, and designing sites within the context of natural and cultural systems. Provides a foundation for conducting any type of site planning project. A specific site in the region is studied and plans are developed for present and future use. May be taught concurrently with PLN 576. Cannot receive credit for both PLN 576 and PLN 676. Credit hours: 4 Lecture contact hours: 3 Lab contact hours: 2 Typically offered: Fall

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 bring catalog description in line with current course content.

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

This course has evolved over the past several years, in response to feedback both from alumni and accreditation site-visit teams.

___ 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

*for information only

(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**

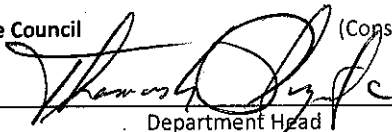
(Considers all substantive course changes for Professional Education courses and Teaching Methods courses.)

___ **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 11/25/2014

(Routing on Reverse Side)

FS Program Change - 10/8/2013

5

Missouri State University Curricular Proposal Course Change or Deletion

Department Geography, Geology & Planning Date November 12, 2014

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

Present Course Code and Number PLN 599 Course Title Internship in Urban and Regional Planning

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

PLN 599 Internship in ~~Urban~~ **Community** and Regional Planning
Prerequisite: 90 hours and PLN 571. Work in community or regional planning agency. Students are monitored by Planning faculty and supervisory personnel of the planning agency. May be repeated to a total of 6 hours. May be taught concurrently with PLN 699. Cannot receive credit for both PLN 699 and PLN 599. Credit hours: 1-3 Lecture contact hours: Lab contact hours: Typically offered: Fall, Spring, **Summer**

Complete New Catalog Information

PLN 599 Internship in Community and Regional Planning
Prerequisite: 90 hours and PLN 571. Work in community or regional planning agency. Students are monitored by Planning faculty and supervisory personnel of the planning agency. May be repeated to a total of 6 hours. May be taught concurrently with PLN 699. Cannot receive credit for both PLN 699 and PLN 599. Credit hours: 1-3 Lecture contact hours: Lab contact hours: Typically offered: Fall, Spring, Summer

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 have course title match wording used in existing course description as well as the title of the Community and Regional Planning option of the B.S. major in Planning. Also, to reflect the fact that many of these internships are available in the summer.

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

Desire for consistency.

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 Thomas W. Blaylock
Department Head
(Routing on Reverse Side)

Date 11/25/2014

Missouri State University
Curricular Proposal Course Change or Deletion

5

Department Geography, Geology & Planning

Date November 12, 2014

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

Present Course Code and Number PLN 699 Course Title Internship in Urban and Regional Planning

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

PLN 699 Internship in ~~Urban~~ **Community** and Regional Planning
Recommended prerequisite: PLN 571. Work in community or regional planning agency. Students are monitored by Planning faculty and supervisory personnel of the planning agency. May be repeated to a total of 6 hours. May be taught concurrently with PLN 599. Cannot receive credit for both PLN 599 and PLN 699. Credit hours: 1-3 Lecture contact hours: Lab contact hours: Typically offered: Fall, Spring, **Summer**

Complete New Catalog Information

PLN 699 Internship in Community and Regional Planning
Recommended prerequisite: PLN 571. Work in community or regional planning agency. Students are monitored by Planning faculty and supervisory personnel of the planning agency. May be repeated to a total of 6 hours. May be taught concurrently with PLN 599. Cannot receive credit for both PLN 599 and PLN 699. Credit hours: 1-3 Lecture contact hours: Lab contact hours: Typically offered: Fall, Spring, Summer

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 have course title match wording used in existing course description as well as the title of the Community and Regional Planning option of the B.S. major in Planning. Also, to reflect the fact that many of these internships are available in the summer.

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

Desire for consistency.

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

*for information only

(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

Thomas G. O'Neil
Department Head
(Routing on Reverse Side)

Date

11/25/2014

Missouri State University

Curricular Proposal – New Interdisciplinary Program (Major, Minor, Certificate)

This special form is to be used for internal Missouri State approval of a new Interdisciplinary program involving two or more academic departments/schools including graduate programs, undergraduate majors (comprehensive or non-comprehensive), minors, graduate certificates, and undergraduate certificates

New graduate programs, new undergraduate majors, and certificate programs involving more than 18 credit hours, require approval by the CBHE as well as approval through the Missouri State curricular process. CBHE applications for such programs are processed through the Office of Institutional Research. All proposals for new programs requiring CBHE approval should progress through the Missouri State curricular process accompanied by a draft of the required CBHE documentation.

Attach on separate sheets (1) statement of rationale and objectives, (2) estimated costs for first five years, and (3) complete catalog description (including new courses and course changes pending approval). [Note: For new programs requiring CBHE approval, CBHE forms NP, PS, and PG will satisfy #1 and CBHE form FP will satisfy #2.]

Sponsoring Department **(1) (responsible for administration and budget):** Student Development and Public Affairs

Sponsoring Department **(2)** Geography, Geology, and Planning

Sponsoring Department **(3)** Economics

Sponsoring Department **(4)** Art & Design

Sponsoring Department **(5)** School of Agriculture

Proposed Program Title: Sustainability

Check One: Major Comprehensive Major Minor Undergraduate Certificate Graduate Certificate Master's Degree

Degree Applicability (i.e., BA, BS, MA, MS, etc.): BA, BAS, BFA, BMus, BME, BS, BSAT, BSEd, BSN, BSW

General Education Courses Required: GRY 108 – Principles of Sustainability

Total Hours: 3

General Education Courses Recommended _____

Total Hours _____

Requirements (including Admission) and Limitations for Specific Program: Students will pick courses from at least 2 different tracks and 2 different departments for 12 credits: Technology & the Built Environment, Social Equity & Ethics, Economics & Policy, Environmental Systems. Students will complete a capstone experience with one of the following "Sustainability in Action" experiences for 1-3 credit hours as independent study, internship, Study Away, or Service Learning.

Total Hours: 16-18

Prerequisites for Required Courses _____

Recommended Electives _____

Total Hours _____

Limitations on Electives _____

DEPARTMENT: Route according to ART VI, SEC 3B (1-4) of Bylaws of the Faculty Senate. Attach New Program Resource Information form (FS-302a/06) and forward three typed, originally signed forms to one of the following (please mark all that apply.) 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 new undergraduate programs through College Council as first step before forwarding either to PEC, CGEIP, or directly to Faculty Senate)

Professional Education Committee

(All proposals affecting BS and MS in Education and Educational Specialist degrees)

Committee on General Education and Intercollegiate Programs

(All general education and multi-college programs)

Graduate Council

(All graduate programs)

Signatures of department heads:

Sponsoring Department **(1)** (responsible for administration and budget)

Date _____

Sponsoring Department **(2)**

Date _____

Sponsoring Department **(3)** (if applicable)

Date _____

Sponsoring Department **(4)** (if applicable)

Date _____

Sponsoring Department **(5)** (if applicable)

Date _____

1) Statement of Rationale and Objectives

A minor in sustainability complements most degree programs and disciplines, from the arts to the sciences. Knowledge of sustainability is highly sought in agriculture, business, construction and design, health related fields, social sciences, environmental sciences and the arts. Sustainability coursework should complement most degree programs while providing the research, writing, and critical thinking skills associated with sustainability that is desired by many employers across many disciplines.

Missouri State University has 11 Benchmark Institutions, nine of which offer a sustainability related minor, with six offering at least one major degree program related to sustainability. To address the need for a sustainability minor, a group of faculty petitioned the Provosts Office to appoint the following as a standing committee: Sustainability Minor Action Committee*. The committee was approved in 2011.

A sustainability minor was developed based on an examination of other sustainability minors across the country. Sustainability-focused courses for each track (see below) were determined by a committee (see below) using the following definition of a “sustainability-focused” course:

“Sustainability-focused courses concentrate on the concept of sustainability, including its social, economic, and environmental dimensions, or examine an issue or topic using sustainability as a lens”.

Because the minor is interdisciplinary and will have courses from five colleges, it will be housed in the Provosts Office, but oversight will be from one or more College Dean’s. Flexible course offerings across Departments and Colleges will allow students to select courses that best fit with how sustainability is being addressed and promoted within their area of study.

*Sustainability Minor Action Committee: Kara Andres** (Student Representative); Jill Black (Geography); Carol Gosselink (Gerontology); Kurt Heinlein (Theater); John Kent** (Business); Bob Jones (Psychology); Tina Liang (Kinesiology); Judy Meyer (Geography); Marciann Patton (Fashion and Interior Design); Abindra Rimal (Agriculture); Ralph Shain (Philosophy); Diann Thomas (Chemistry); Lauren Bansbach** (Sustainability Coordinator); Alexander Wait (Biology-Chair). Members with ** are no longer at MSU and will be replaced.

Objectives:

- To graduate students who are broadly trained to address sustainability in ways that are realistic, equitable and ethical.
- To graduate university-educated persons with technical, administrative and organizational knowledge, as well as critical thinking skills, associated with sustainability.

To meet these objectives, the minor was developed as follows:

- 1) All students will take intro course: **GRY 108 Principles of Sustainability**. This is currently a General Education Course (Knowledge of Human Cultures: Focus on Social and Behavioral Sciences). Course enrollment is currently 70 in fall and 50 in spring.

Course Description: An introduction to the multidisciplinary concept of "sustainability," including the difficulty of defining sustainability and implementing sustainable development programs. Emphasis is placed on understanding basic environmental and social processes and patterns and how they relate to current events.

- 2) Students will pick courses from at least 2 different tracks and 2 different departments for 12 credits:

Technology & the Built Environment
Social Equity & Ethics
Economics & Policy
Environmental Systems

- 3) Students will complete a capstone experience with one of the following **"Sustainability in Action"** experiences for 1-3 credit hours as independent study, internship, Study Away, or Service Learning.

2) **Estimated Costs For First Five Years = \$0**

3) **Complete Catalog Description**

Sustainability

Bachelor of Applied Science

Bachelor of Arts

Bachelor of Fine Arts

Bachelor of Music

Bachelor of Music Education (Non-Certifiable)

Bachelor of Science

Bachelor of Science in Athletic Training

Bachelor of Science in Education (Non-Certifiable)

Bachelor of Science in Nursing

Bachelor of Social Work

Program Advisors: Alice A. (Jill) Black, PhD. (Geography); Carol Gosselink, PhD. (Gerontology); Kurt Heinlein, PhD. (Theater); Robert Jones, PhD. (Psychology); Yating Liang, PhD. (Kinesiology); Judith Meyer, PhD. (Geography); Marciann Patton, M.Ed. (Fashion and Interior Design); Arbindra Rimal, PhD. (Agriculture); Ralph Shain, PhD. (Philosophy); Diann Thomas, PhD. (Chemistry); Alexander Wait, PhD. (Biology-Chair)

Description of Minor: A minor in sustainability complements most degree programs and disciplines, from the arts to the sciences. The flexible course offerings allow students to select courses that best fit with how sustainability is being addressed and promoted within their area of study. Knowledge of sustainability is highly sought in agriculture, business, construction and design, health related fields, social sciences, environmental sciences and the arts. The coursework complements the degree program while providing the research, writing, and critical

thinking skills associated with sustainability that is desired by many employers across many disciplines.

Administration of the program

Courses must be approved by the faculty of the Sustainability Action Minor Committee for inclusion in the minor. The administrator of the program must approve the course of study for each student who wishes to complete a Sustainability minor.

The minor in Sustainability requires a total of 16-18 hours.

A. GRY 108 Principles of Sustainability (3)

B. Complete 12 hours from the following areas with courses from at least two areas:

1. Technology and the Built Environment:
 - a. GLG 573 Engineering Geology (3)
 - b. GRY 322 Urban Geography (3)
 - c. HID 340 Sustainable Design (3)
 - d. PLN 574 Open Space Planning (3)
2. Social Equity and Ethics:
 - a. ART 385 Art of the Americas (3)
 - b. ART 386 Art of Africa (3)
 - c. ART 485 Art of Mesoamerica (3)
 - d. ART 488 Basic Conservation of Art and Artifacts (3)
 - e. ECO 101 Economics of Social Issues (3)
 - f. GRY 100 World Regional Geography (3)
 - g. GRY 316 Geography of Global Health and Disease (3)
 - h. PHI 302 Environmental Ethics (3)
 - i. PLN 505 Social Planning (3)
 - j. REC 211 Principles of Outdoor Recreation (3)
 - k. SOC 319 Environmental Sociology (3)
3. Economics and Policy:
 - a. AGB 354 Land Economics (2)
 - b. CRM 487 Green Criminology (3)
 - c. ECO 346 International Economic Development (3)
 - d. ECO 450 Urban and Regional Economics (3)
 - e. ECO 540 Economics of the Environment (3)
 - f. GRY 321 Economic Geography (3)
 - g. LAW 537 Environmental Regulation (3)
 - h. PLS 555 Public Policy for a Global Environment (3)
 - i. PSY 379 Environmental Psychology (3)
4. Environmental Systems:
 - a. AGN 115 Sustainable Agriculture and the Environment (3)
 - b. AGN 215 Soils (3)
 - c. AGN 335 Soil Conservation and Water Management (3)
 - d. AGR 370 Animal Welfare, Animal Rights, and Ethics of Food (3)
 - e. BIO 485 Marine Conservation (1-3)

- f. BIO 597 Conservation Biology (1-4)
- g. CHM 107 Chemistry for the Citizen (3)
- h. GLG 171 Environmental Geology (3)
- i. GLG 350 Speleology (3)
- j. GRY 301 Geography of the Ozarks (3)
- k. GRY 310 Fundamentals of Tourism (3)
- l. GRY 328 Principles of Geotourism (3)
- m. GRY 348 Geomorphology (3)
- n. GRY 351 Conservation of Natural Resources (3)
- o. GRY 510 Applications in Sustainability (3)

C. Complete 1-3 hours from one of the following as approved by the Administrator:

- 1. Study Away
- 2. Internship
- 3. Service Learning
- 4. Independent Study