

Delete Course Proposal Form

Submitted on 03/18/2019 by Matthew Siebert (MSiebert@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

CHM344 Organic Chemistry II

Is this course a requirement or course choice within any current program, including those outside your department?

- No
- Yes (A corresponding program change course form must be submitted to remove the deleted course from the program requirements. You should also notify other departments using this course of your plans to delete the course.)

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Online catalog description.

Prerequisite: "C-" grade or better in CHM 342. Continuation of the lecture part of CHM 342. Identical to lecture part of CHM 343. A grade of "C-" or better is required in this course in order to take CHM 542. Cannot be taken Pass/Not Pass. 3(3-0) F,S

Reason for proposed Deletion

CHM343 was recently changed making CHM344 a redundant course listing. Note that departments that have CHM 344 in their program were notified of the changes to the "old" CHM342/343 courses (changes that have already gone through CAW).

1

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum Faculty Input Student Input
- Accreditation/certification compliance Review of catalog information
- Other (be specific):

What is the date that this course change was approved by departmental or program faculty?

03/05/2019

Current Status:

College Council Review

Proposal Progress:

03/18/2019 - Submitted by Department Head (Bryan Breyfogle)

Review Comments:

No comments have been added to this proposal.

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Missouri State.

2

Curricular Action Workflow



Change Course Proposal Form

Submitted on 04/02/2019 by Matthew Siebert (MSiebert@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

CHM160 General Chemistry I

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Current online catalog description:

CHM 160 General Chemistry I

Prerequisite: eligibility for MTH 135 or higher; concurrent enrollment in CHM 161 is highly recommended. MOTR number CHEM 150 - Chemistry I. Emphasis on fundamental and theoretical concepts of chemistry.

Recommended for all science majors, chemistry majors and minors, and most preprofessional students. A grade of "C-" or better is required in this course in order to take CHM 170 or CHM 171. Cannot be taken Pass/Not Pass. 4

2

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

What is changing? Check all boxes that apply.

- | | | | |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code | <input type="checkbox"/> Course Number
(Check Availability) | <input type="checkbox"/> Title | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit
Hours/Contact
Hours | <input type="checkbox"/> Periodicity | <input type="checkbox"/> Description | |

Reason for proposed change

The only change being made is the change of prerequisite from MTH 135 to MTH 136. MTH has recently created 136 (appropriate for science majors) and changed the target demographic for 135 (making 135 not appropriate for natural science preparation). Since the prerequisites for MTH135 and 136 are the same, this is really a non-substantive change that will effectively advise students of the proper MTH course to take (if they need to) in preparation for CHM160 (the course being edited herein).

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- | | | |
|--|--|--|
| <input type="checkbox"/> Routine or annual review/assessment of curriculum | <input checked="" type="checkbox"/> Faculty Input | <input type="checkbox"/> Student Input |
| <input type="checkbox"/> Accreditation/certification compliance | <input type="checkbox"/> Review of catalog information | |
| <input type="checkbox"/> | | |

2

Other (be

specific):

[Empty text box for other specific details]

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty? (MM/DD/YYYY)

03/05/2019

Current Status:

College Council Review

Proposal Progress:

04/02/2019 - Submitted by Department Head (Bryan Breyfogle)

Review Comments:

No comments have been added to this proposal.

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New Course Proposal Form

Submitted on 03/29/2019 by Ajay Katangur (AjayKatangur@MissouriState.edu).

***All fields require input**

- New COURSE
- New REGULAR PERMANENT SECTION of an existing variable content course. If a new regular section of an existing variable topics course, enter the existing course number below

Course Code:

CSC

Course Number: (Check Availability)

588

Course Title:

Information Assurance

Will this course become part of a program? No Yes (A corresponding program change form must be submitted)

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Prerequisite/Co-requisite or enter 'None':

CSC 232 Data Structures

Catalog Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability, UG/GR parallel course, etc.)

3

An introduction to information security and assurance. This course covers the basic notions of confidentiality, integrity, availability, authentication models, protection models, secure programming, audit, intrusion detection and response, operational security issues, physical security issues, personnel security, policy formation and enforcement, access controls, information flow, legal and social issues, classification, trust modeling, and risk assessment.

Credit Hours:

Lecture Contact Hours:

Lab Contact Hours:

Note: If variable credit, enter the highest number and add to end of course description. (e.g. "Variable credit, may be taken 1-3 hours.")

Periodicity. Check all that apply.

- Fall
- Fall (even-numbered years only)
- Fall (odd-numbered years only)
- Spring
- Spring (even-numbered years only)
- Spring (odd-numbered years only)
- Summer
- On Demand only

Complete Catalog Description:

CSC 588 Information Assurance

Prerequisite: CSC 232 Data Structures

An introduction to information security and assurance. This course covers the basic notions of confidentiality, integrity, availability, authentication models, protection models, secure programming, audit, intrusion detection and response, operational security issues, physical security issues, personnel security, policy formation and enforcement, access controls, information flow, legal and social issues, classification, trust modeling, and risk assessment.

Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0

Typically offered: On Demand only

Include sample syllabus (list topics, course goals.) Use text box OR upload only file types of PDF, DOC or DOCX.

Attached

Purpose of Course

Relationship to Other Departments

Is there a graduate/undergraduate parallel course to this one? No Yes

Enter parallel course number

How do these classes differ?

New Course Resource Information

3

Anticipated Average Enrollment per section:

Maximum Enrollment Limit per section:

Anticipated Average Enrollment per semester:

Maximum Enrollment Limit per semester:

Anticipated Average Enrollment per year:

Maximum Enrollment Limit per year:

Faculty Load Assignment (equated hours):

Is another course being deleted? No Yes

Select course number and title being deleted.

What will this course require in the way of:

Additional library Holdings

Additional computer resources

Additional or remodeled facilities

Additional equipment or supplies

Additional travel funds

Additional faculty; general vs specialized

Additional faculty; regular vs per-course

Other additional expenses

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

We have already offered this course in Spring 2019 as CSC 590 Special Topics and it has been taught by a current faculty. We also made a new hire in Spring 2019 which enables us to cover this course without any additional faculty.

3

List names of current faculty qualified and available to teach this course

Ajay Katangur
Ken Vollmar
Razib Iqbal

What is the anticipated source of students for this course?

Juniors, Seniors and Graduate Computer Sciences students

If from within the department, will students be taking this course in addition to or in place of other courses?

This is an elective course. It will give students the flexibility to specialize in the are of information assurance.

If from outside the department, which courses in other departments would most likely be affected?)

None

Other comments:

None

What is the date that this new course was approved by departmental or program faculty?
(MM/DD/YYYY)

03/26/2019

Current Status:

Department Head Review

Proposal Progress:

This proposal is waiting for its first review.

Review Comments:

No comments have been added to this proposal.

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**CSC 588.001 Information Assurance
Computer Science Department
Spring 2019**

A. COURSE INFORMATION

Course number/section: CSC 590.001
CSC 690.001
Class meeting time: TR 5:30 - 6:45 PM
Class location: Cheek Hall 209
Course Website: <https://blackboard.missouristate.edu>

B. INSTRUCTOR INFORMATION

Instructor: Dr. Ajay K Katangur
Office location: Cheek Hall 203B
Office hours: TR 4:00 PM - 5:15 PM, W 9:30AM - 12:00PM
Telephone: 417-836-6646
E-mail: ajaykatangur at missouristate dot edu
Appointments: By e-mail

C. COURSE DESCRIPTION**Catalog Course Description**

An introduction to information security and assurance. This course covers the basic notions of confidentiality, integrity, availability, authentication models, protection models, secure programming, audit, intrusion detection and response, operational security issues, physical security issues, personnel security, policy formation and enforcement, access controls, information flow, legal and social issues, classification, trust modeling, and risk assessment.

D. PREREQUISITES AND COREQUISITES**Prerequisites**

CSC 232(Data Structures)

Corequisites

None

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES**Required Textbook(s)**

- Introduction to Computer Security by Matt Bishop, Addison Wesley Professional. (ISBN: 0-321-24744-2)
- Principles of Computer Security, CompTIA Security+ and Beyond, 4th Edition by Vincent J. Nestler, Keith Harrison, Matthew P. Hirsch, Wm. Arthur Conklin, McGraw-Hill Education. (ISBN: 978-0-07-183655-5)

Optional Textbook(s) or Other References

None

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course's student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

By the end of this course, students will:

- Demonstrate an understanding of the concepts of computer security
- Demonstrate a working knowledge of the computer security foundations
- Comprehend security policies
- Comprehend computer security design principles
- Comprehend access control mechanisms
- Comprehend information assurance principles
- Comprehend malicious logic
- Apply concepts of vulnerability analysis
- Apply concepts of intrusion detection
- Apply concepts of network security

Assessment of objectives will be conducted through quizzes, exams, homework assignments, and projects.

G. MAJOR COURSE REQUIREMENTS AND GRADING

This is a high-level core course. This is a difficult course that demands all students attend all classes! Regular completion of all reading, homework, and other outside assignments, are absolutely essential for success in this course. *Graduate students will be assigned some additional work on homework assignments.*

Your course grade will be decided on your performance in the exams, quizzes, homework assignments, and a final project. The distribution of points is as follows:

ACTIVITY	% of FINAL GRADE
Exams	40
Quizzes	10
Homework Assignments	30
Final Project	20

Grading scale: A: 100-90, B: 89-80, C: 79-70, D: 69-60, and F: 59-0.

Homework Assignments: Approximately 6-8 homework assignments will be given. Partial credit will be given for incomplete assignments.

Quizzes: There will be pop quizzes from time-to-time.

Project: The project can be a programming project (with a final report on the project), a research

paper or a survey paper. An in-class presentation is also required for any of the above. All programming projects are group projects, whereas research or survey paper is individual effort. All projects must be approved by the instructor. Additional details on the project will be available later on the course website (blackboard).

Exams: The first exam will be given on February 14, 2019, the second exam will be given on March 28, 2019 during the scheduled class time, and the third exam will be given on May 2, 2019 and the final exam day which is on May 14, 2019 from 5:45 pm – 7:45 pm will be used for final project and paper presentations.

H. IMPORTANT DATES

Jan 21	Martin Luther King Jr. Holiday (no classes)
Feb 14	Exam 1
Mar 9-17	Spring Break (no classes)
Mar 28	Exam 2
TBD	Last day to drop or withdraw from classes
Apr 18-21	Spring Holiday (no classes)
May 2	Exam 3
May 9	Last day of classes
May 10	Study Day (no classes)
May 7, 9	Final project and paper presentations
May 14	Final project and paper presentations, 5:45 pm – 7:45 pm

I. TENTATIVE COURSE CONTENT/SCHEDULE (SUBJECT TO CHANGE)

Week 1	Syllabus, Class Introduction Chapter 1: An Overview of Computer Security
Week 2	Chapter 2: Access Control Matrix Chapter 4: Security Policies, HW1
Week 3	Chapter 4: Security Policies Chapter 5: Confidentiality Policies
Week 4	Chapter 6: Integrity Policies, HW2 Chapter 7: Hybrid Policies, Topic Due for Final Project or Paper
Week 5	Chapter 8: Basic Cryptography, Exam 1 Review Exam 1
Week 6	Chapter 9: Key Management, HW3 Chapter 9: Key Management, Chapter 11: Authentication

Week 7	Chapter 11: Authentication Chapter 13: Representing Identity, HW4
Week 8	Chapter 13: Representing Identity Chapter 14: Access Control Mechanisms
Week 9	Spring Break (no classes)
Week 10	Chapter 14: Access Control Mechanisms, HW5 Chapter 17: Introduction to Assurance
Week 11	Chapter 19: Malicious Logic, Exam 2 Review Exam 2
Week 12	Chapter 19: Malicious Logic, HW6 Chapter 20: Vulnerability Analysis
Week 13	Chapter 20: Vulnerability Analysis, HW7 Chapter 22: Intrusion Detection
Week 14 Apr 18-21	Chapter 22: Intrusion Detection, Chapter 23: Network Security Spring Holiday (no classes)
Week 15	Chapter 23: Network Security, HW8 Chapter 24: System Security
Week 16	Chapter 25: User Security, Exam 3 Review Exam 3
Week 17	Final project and paper presentations Final project and paper presentations, Final Paper or Report Due by 11:59 pm on May 9, 2019
May 14	Final project and paper presentations from 5:45 pm to 7:45 pm

J. COURSE POLICIES

This course will be governed by all policies described in the Faculty Handbook and the Student Guidebook of Missouri State University.

Course Syllabus: We will meet for lecture on Tuesdays and Thursdays, when new material will be presented. We will follow the text generally, but non-text material may also be included in the lectures. The quizzes and exams will be given during the class hours. You are responsible for all the material presented during the lecture.

Exams: Exams will cover all lecture and reading material discussed in the class. Exams must be taken on the hour they are scheduled.

Missed Exam: In the event, if you cannot attend the class to take the exam due to some emergency or some unavoidable situation (such as serious illness, death in the family, participation in university sports, religious observations, and so on) you must notify me as soon as possible before the exam and also you must validate your absence by providing me a document (e.g., with a letter from your doctor). Once your cause is validated a make-up exam will be given.

Quizzes: All quizzes are pop-quizzes. A quiz can be given at any point during the scheduled class time. No makeup quizzes will be given. A total of three least scores on the quizzes will be dropped.

Homework Assignments: Assignments will significantly build on the material from the lectures. They will be posted on the course web page (blackboard) or hard copies are handed out in the class during the lecture sessions. Please refer to the handout on programming assignments for complete details on submission requirements. (Details decided per assignment). All the assignments are due at the beginning of the class on the due date. If the student is absent on the assignment due date, it is the student's responsibility to see to it that the assignment is submitted on the designated date. An assignment that is turned in after the class on the due date is considered one day late. There is a penalty for late submissions. Late assignments will be counted 20% off for each day after the due time. 100% penalty (i.e. no credit) if submitted after 5 days. If you have not completed your assignment by the due date, you should submit the work you have done for partial credit. No work will be accepted once the graded work has been returned or the solution has been disclosed to the class, except for unusual circumstances which the instructor feels reasonable. Note that any kind of hardware or software failure or machine unavailability in the lab does not merit an extension on the assignment. Diskettes upon which major examinations, assignments, projects or papers submitted may be retained by the instructor as a permanent record of the student's work

Grading Error: All questions concerning grading of a returned quiz, test or assignment must be resolved within one week. It is always a good idea to keep all of your work until the end of the semester. In case of any recording errors or doubts, you may produce them for correction or verification.

Extra Credit: There is no EXTRA CREDIT

Academic Honesty Policy: You are expected to avoid all forms of academic dishonesty as defined in Catalog. In addition, students are expected to behave in an ethical manner in all class activities. If you feel uncertain about a particular activity, please speak to me BEFORE problems arise. Ethical behavior is a requirement for passing this course. All work submitted for grading must be the student's own work. Plagiarism will result in a score of 0 (zero) for the work and an academic integrity incident report will be filed

(https://cm.maxient.com/reportingform.php?MissouriStateUniv&layout_id=1). No copying from another student's work, of any class, is allowed. No copying from any source such as the Internet is also not allowed. It is the student's duty to allow no one to copy his or her work. Anyone found cheating and/or copying, in the exams or assignments, will receive an automatic F for the course.

Collaboration: If two or more people collaborate on an assignment assigned it should be notified on the assignment and each student should submit his or her solutions for grading. The grade obtained on such an assignment is the total points obtained for the assignment divided by the square of the number of people who collaborated on the assignment (e.g., if 3 people collaborate on an assignment and the

grade for that assignment is 90 out of 100, then each student receives a grade of $90/3^2 = 10$). If you do not notify me of such collaboration it will be treated as copied and action will be taken as discussed under the academic honesty policy.

Attendance: While in class attendance will not directly affect the grade, you are responsible for any materials covered or handed out or announcements made for the tests and assignments in your absence. Records of your attendance will be maintained and reported to the university. Students found missing classes without the instructor's permission will be automatically withdrawn from the course.

Absence from class: Students are responsible for all materials covered in class and assigned. Should a student be absent from class, it is his/her responsibility to get the notes, etc. for that missed class. More important, should there be assignments, it is the student responsibility to obtain such assignments. No excuse will be accepted for assignments not turned in because the student was absent when it was due.

Laptop Use

Laptops, Tablets cannot be used in the class, unless used for course related content.

Food in Class

No food in the class or labs.

K. UNIVERSITY POLICIES

- **Academic Dishonesty**

Missouri State University is a community of scholars committed to developing educated persons who accept the responsibility to practice personal and academic integrity. You are responsible for knowing and following the University's academic integrity policy plus additional more-specific policies for each class. The University policy, formally known as the "Student Academic Integrity Policies and Procedures" is available online at www.missouristate.edu/policy/Op3_01_AcademicIntegrityStudents.htm and also at the Reserves Desk in Meyer Library. Any student participating in any form of academic dishonesty will be subject to sanctions as described in this policy.

- **Cell Phone Policy**

As a member of the learning community, each student has a responsibility to other students who are members of the community. When cell phones or pagers ring and students respond in class or leave class to respond, it disrupts the class. Therefore, the Office of the Provost prohibits the use by students of cell phones, pagers, PDAs, or similar communication devices during scheduled classes. All such devices must be turned off or put in a silent (vibrate) mode and ordinarily should not be taken out during class. Given the fact that these same communication devices are an integral part of the University's emergency notification system, an exception to this policy would occur when numerous devices activate simultaneously. When this occurs, students may consult their devices to determine if a university emergency exists. If that is not the case, the devices should be immediately returned to silent mode and put away. Other exceptions to this policy may be granted at the discretion of the instructor.

- **Emergency Storm Shelter and Evacuation Information**

In the event of an emergency or incident in the classroom, the faculty member is often the

first university representative or authority figure recognized to be in charge until emergency first responders arrive. At the first class meeting, students should become familiar with a basic emergency response plan through a dialogue with the instructor that includes a review and awareness of exits specific to the classroom and the emergency relocation areas for the building. For your convenience, this information has been provided by the Office of the Provost and Safety and Transportation and appears below. Students with disabilities impacting mobility should discuss with their instructor the approved accommodations for emergency situations and additional options. Faculty must include information related to emergency response in their syllabi (see <http://www.missouristate.edu/provost/syllabi.htm>). For more information contact Safety and Transportation (417-836-5509) or consult the Emergency Quick Reference Guide and Campus Emergency Response Plan.

Tornado Shelter Area Information (in case of severe weather)

Building	Tornado Shelter Area
Cheek Hall	Evacuate floors 1, 2, and 3 using Center, North and West stairs Shelter in basement interior hallway.

Emergency Assembly Point Instructions (in case the building needs to be evacuated for events such as fire, gas leak, etc.)

Building	Emergency Assembly Point
Cheek Hall	West to Sicheluff Hall 1st Floor Classrooms and Lobby; Overflow Overflow, Plaster Student Union Lower Level

Areas of Rescue (in case you are unable to evacuate to the ground floor, these are areas of temporary safety until rescuers arrive)

Building	Area of Rescue
Cheek Hall	None in this facility

- Religious accommodation**

The University may provide a reasonable accommodation based on a person's sincerely held religious belief. In making this determination, the University reviews a variety of factors, including whether the accommodation would create an undue hardship. The accommodation request imposes responsibilities and obligations on both the individual requesting the accommodation and the University. Students who expect to miss classes, examinations, or other assignments as a consequence of their sincerely held religious belief shall be provided with a reasonable alternative opportunity to complete such academic responsibilities. It is the obligation of students to provide faculty with reasonable notice of the dates of religious observances on which they will be absent by submitting a *Request for Religious Accommodation Form* to the instructor by the end of the third week of a full semester course or the end of the second week of a half semester course.

- Nondiscrimination**

Missouri State University is an equal opportunity/affirmative action institution, and maintains a grievance procedure available to any person who believes he or she has been discriminated

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against. At all times, it is your right to address inquiries or concerns about possible discrimination to the Office for Institutional Equity and Compliance, Park Central Office Building, 117 Park Central Square, Suite 111, 417-836-4252. Other types of concerns (i.e., concerns of an academic nature) should be discussed directly with your instructor and can also be brought to the attention of your instructor's Department Head. Please visit the OED website at www.missouristate.edu/equity.

- **Disability Accommodation**

If you are a student with a disability and anticipate barriers related to this course, it is important to request accommodations and establish an accommodation plan with the University. Please contact the Disability Resource Center (DRC) (www.missouristate.edu/disability), Meyer Library, Suite 111, 417-836-4192, to initiate the process to establish your accommodation plan. The DRC will work with you to establish your accommodation plan, or it may refer you to other appropriate resources based on the nature of your disability. In order to prepare an accommodation plan, the University usually requires that students provide documentation relating to their disability. Please be prepared to provide such documentation if requested. Once a University accommodation plan is established, you may notify the class instructor of approved accommodations. If you wish to utilize your accommodation plan, it is suggested that you do so in a timely manner, preferably within the first two weeks of class. Early notification to the instructor allows for full benefit of the accommodations identified in the plan. Instructors will not receive the accommodation plan until you provide that plan, and are not required to apply accommodations retroactively.

- **Dropping a Class**

It is your responsibility to understand the University's procedure for dropping a class. If you stop attending this class but do not follow proper procedure for dropping the class, you will receive a failing grade and will also be financially obligated to pay for the class. For information about dropping a class or withdrawing from the university, contact the Office of the Registrar at 836-5520. Please visit <https://www.missouristate.edu/registrar/refundschedules.htm> for deadlines.

- **Audio and Video Recording Course Activity**

Students who wish to record lectures or class activities for study purposes should inform the faculty member first. Distribution or sale of recordings or other course materials is prohibited without the written permission of the instructor and other students who are recorded. Distribution without permission is a violation of copyright law and the Code of Student Rights and Responsibilities (Sections 4.6, 4.8, 4.9).

L. GENERAL DISCLAIMER

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.

Change Course Proposal Form

**Submitted on 04/01/2019 by William
Bray (WBray@MissouriState.edu).**

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

MTH343 Foundations of Probability and Statistics for Teachers

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Current online catalog description:

MTH 343 Foundations of Probability and Statistics for Teachers

Prerequisite: "C" or better in MTH 320. This course includes the collection, display, analysis, and misuse of data. The course is designed to provide preservice teachers with the content and pedagogical tools to effectively teach statistics in a middle school/high school setting. Topics include graphical representations and measures of analysis of univariate data (e.g., mean, MAD, standard deviation, five-number summary) and bivariate data (e.g., two-way tables, independence, correlation, regression). Counting techniques, including permutations and combinations, and elementary probability will also be covered. An informal introduction to inferential statistics topics (e.g. sampling distributions, confidence intervals, and tests of significance) will also be discussed. Problem-solving and communication skills are continuing themes. This is an activity-based course with extensive use of manipulatives, models, and technology (e.g. GeoGebra and CODAP) that have application within middle/secondary mathematics classrooms. 3(2-2) F,S

← → **B I S**

MTH 343 Foundations of Probability and Statistics for Teachers

Prerequisite: "C" or better in MTH 320 **or a "C" or better in MTH 261**. This course includes the collection, display, analysis, and misuse of data. The course is designed to provide preservice teachers with the content and pedagogical tools to effectively teach statistics in a middle school/high school setting. Topics include graphical representations and measures of analysis of univariate data (e.g., mean, MAD, standard deviation, five-number summary) and bivariate data (e.g., two-way tables, independence, correlation, regression). Counting techniques, including permutations and combinations, and elementary probability will also be covered. An informal introduction to inferential statistics topics (e.g. sampling distributions, confidence intervals, and tests of significance) will also be discussed. Problem-solving and communication skills are continuing themes. This is an activity-based course with extensive use of manipulatives, models, and technology (e.g. GeoGebra and CODAP) that have application within middle/secondary mathematics classrooms. 3(2-2) F,S

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What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

A recent change in the BSED program in mathematics was the addition of MTH 343 to program requirements. However, BSED students do not take MTH 320 (they take MTH 261). This prerequisite change simply supports the changes already made in BSED.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information

Other (be specific):

Check if this is a non-substantive change.

4

What is the date that this course change was approved by departmental or program faculty? (MM/DD/YYYY)

03/27/2019

Current Status:

College Council Review

Proposal Progress:

04/01/2019 - Submitted by Department Head (William Bray)

Review Comments:

04/01/2019 - Department Head Review - William Bray - Simple change in prereq that effects no other department.

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Change Course Proposal Form

Submitted on 03/31/2019 by David Perkins (DavidPerkins@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY410 The Geotourism Industry

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Current online catalog description:

GRY 410 The Geotourism Industry

Prerequisite: GRY 328. This course includes the asset theory of tourism, cost-benefit analysis, tax policy impacts, and other economic and statistical aspects of tourism, approached from the elements in the Geotourism perspective. The course will examine research designed to determine economic impacts of the Geotourism industry, and study sustainability issues associated with tourism development. Attention paid to the conflicting agenda of society's various stakeholders and the need to reconcile environmental, economic and sociocultural concerns. 3(3-0) F

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

Rich text editor toolbar with icons for undo, redo, bold, italic, and link.

GRY 410 The Geotourism Industry **Geography of World Tourism**

5

Prerequisite: ~~GRY 328~~ **NONE. A systematic description and analysis of the world's major tourism destination regions with an emphasis on World Heritage sites. Case studies will examine the role local communities play in the sustainable development of sites with special natural and/or cultural value. Students will be introduced to some of the key concepts and methods used to investigate and make sense of the role, significance and impact of tourism that sustains or enhances the geographical character of a place--its environment, culture, aesthetics, heritage, and the well-being of its residents. This course includes the asset theory of tourism, cost-benefit analysis, tax policy impacts, and other economic and statistical aspects of tourism, approached from the elements in the Geotourism perspective. The course will examine research designed to determine economic impacts of the Geotourism industry, and study sustainability issues associated with tourism development. Attention paid to the conflicting agenda of society's various stakeholders and the need to reconcile environmental, economic and sociocultural concerns.** 3(3-0)F

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- | | | | |
|---|--|---|--|
| <input type="checkbox"/> Course Code | <input type="checkbox"/> Course Number (<u>Check Availability</u>) | <input checked="" type="checkbox"/> Title | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity | <input checked="" type="checkbox"/> Description | |

Reason for proposed change

This course is being changed to offer a clearer pathway through the tourism curriculum for students. The introductory course GRY 310: Fundamentals of Tourism is then followed with this more specific analysis of world tourism. This is an effort to streamline the curriculum.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

[Empty text box]

How did you determine the need for this change? Check all boxes that apply or specify other.

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Routine or annual review/assessment of curriculum | <input checked="" type="checkbox"/> Faculty Input | <input type="checkbox"/> Student Input |
| <input type="checkbox"/> Accreditation/certification compliance | <input type="checkbox"/> Review of catalog information | |

Other (be specific):

[Empty text box]

Check if this is a non-substantive change.

5

What is the date that this course change was approved by departmental or program faculty? (MM/DD/YYYY)

01/18/2019

Current Status:

Department Head Review

Proposal Progress:

This proposal is waiting for its first review.

Review Comments:

No comments have been added to this proposal.

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Change Course Proposal Form

Submitted on 03/31/2019 by David Perkins (DavidPerkins@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY510 Applications in Sustainable Geotourism

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Current online catalog description:

GRY 510 Applications in Sustainable Geotourism

Prerequisite: GRY 410. This course will explore environmentally and socially responsible tourism strategies and innovations, and provide tools needed by private and public tourism entities to work together. The principles of Geotourism will be applied in a practicum to a local, regional or national community. Students will work as a team and individually to develop a tourism policy and plan based on Geotourism parameters. May be taught concurrently with GRY 610. Cannot receive credit for both GRY 510 and GRY 610: 3(3-0) S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)



GRY 510 Applications in Sustainable Geotourism

6 5

Prerequisite: GRY 410 **NONE**. This course will explore environmentally and socially responsible tourism strategies and innovations, and provide tools needed by private and public tourism entities to work together. **This class will introduce some of the key concepts and methods used to investigate and make sense of the role, significance and impact of tourism that sustains or enhances the geographical character of a place--its environment, culture, aesthetics, heritage, and the well-being of its residents. Students will explore environmentally and socially responsible tourism strategies and innovations, and study issues associated with tourism development.** Students will work as a team to develop a tourism policy and plan plans based on Geotourism parameters **where ideas will may** be applied in a practicum to a local, regional or national community. May be taught concurrently with GRY 610. Cannot receive credit for both GRY 510 and GRY 610. 3(3-0) S

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

As part of a streamlining of our geography tourism courses we are modifying this course to stand alone in its coverage of geotourism concepts. Thus, GRY 410 and other courses will no longer be prerequisites.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

[Empty text box for explanation]

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information
- Other (be specific):

[Empty text box for other reasons]

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty? (MM/DD/YYYY)

01/18/2019

Current Status:

Department Head Review

6 5/2

Proposal Progress:

This proposal is waiting for its first review.

Review Comments:

No comments have been added to this proposal.

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Delete Course Proposal Form

Submitted on 04/01/2019 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY308 Geography of World Tourism

Is this course a requirement or course choice within any current program, including those outside your department?

- No
- Yes (A corresponding program change course form must be submitted to remove the deleted course from the program requirements. You should also notify other departments using this course of your plans to delete the course.)

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Online catalog description.

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

Reason for proposed Deletion

Updating curriculum to reflect current teaching capacities and programmatic goals.

7

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information
- Other (be specific):

What is the date that this course change was approved by departmental or program faculty?

01/18/2019

Current Status:

College Council Review

Proposal Progress:

04/01/2019 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

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Delete Course Proposal Form

Submitted on 04/01/2019 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY328 Principles of Geotourism

Is this course a requirement or course choice within any current program, including those outside your department?

~~No~~
~~Yes~~

Yes (A corresponding program change course form must be submitted to remove the deleted course from the program requirements. You should also notify other departments using this course of your plans to delete the course.)

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Online catalog description.

Prerequisite: GRY 308 and GRY 310. From landscapes, habitats and species to global events such as the Olympics, the ways in which humans interact, impact and explore the world leave indelible "footprints". The students will be introduced to some of the key concepts and methods used to investigate and make sense of the role, significance and impact of tourism that sustains or enhances the geographical character of a place--its environment, culture, aesthetics, heritage, and the well-being of its residents. 3(3-0) S

Reason for proposed Deletion

In our change to a sustainable tourism-based curriculum instead of geotourism, we are streamlining all geotrouism class curricula into one capstone course: GRY 510.



How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum Faculty Input Student Input
- Accreditation/certification compliance Review of catalog information
- Other (be specific):

What is the date that this course change was approved by departmental or program faculty?

01/18/2019

Current Status:

College Council Review

Proposal Progress:

04/01/2019 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

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Missouri State

Curricular Action Workflow



Change Program Proposal Form

Submitted on 04/01/2019 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Geography, Geology, & Planning

Type of Program

Choose One:

- | | | |
|---|--|--------------------------------------|
| <input type="radio"/> Non-Comprehensive Undergraduate Major | <input type="radio"/> Option | <input type="radio"/> Certification |
| <input type="radio"/> Comprehensive Undergraduate Major | <input checked="" type="radio"/> Minor | <input type="radio"/> Academic Rules |
| <input type="radio"/> Graduate Program | <input type="radio"/> Certificate | <input type="radio"/> Other |

Choose All That Apply:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Bachelor of Arts | <input type="checkbox"/> Bachelor of Music Education | <input type="checkbox"/> Bach of Science in Athl Traing |
| <input type="checkbox"/> Bachelor of Applied Science | <input type="checkbox"/> Bachelor of Music | <input type="checkbox"/> Bach of Science in Education |
| <input type="checkbox"/> Bachelor of Fine Arts | <input checked="" type="checkbox"/> Bachelor of Science | <input type="checkbox"/> Bachelor of Science in Nursing |
| <input type="checkbox"/> Bachelor of Social Work | | |

Does this program include any new courses?

- No Yes (A corresponding new course form must be submitted to create each new course.)

Title of Program Affected:

Geotourism

Current Catalog Description: (Either cut and paste present description from online catalog **OR** provide as an attachment below)

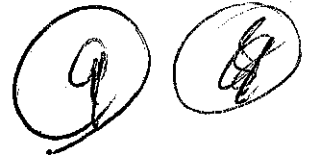
Minor(s)
 Geotourism
 Bachelor of Arts
 Bachelor of Science
 GRY 108(3), 308(3), 310(3), 328(3), 410(3); HSP 340(3)
 Because of course overlap, this minor cannot be used by students selecting the Geotourism option in the BS major in Geography.

Not Attached

Complete New Catalog Description: (Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)

↩ ↪ B I S

Minor(s)
Geotourism-Sustainable Tourism Development (18 hours)
 Bachelor of Arts
 Bachelor of Science



Geotourism Minor (PROPOSED CHANGE) (18 HOURS)

"Sustainable Tourism Development"

Required (15 hours): GRY 108, 310, 410 (formerly 308), 510, HL 340

- GRY 108, Principles of Sustainability
- GRY 310, Fundamentals of Tourism
- GRY 410, Geography of World Tourism
- GRY 510, Applications in Sustainable Geotourism
- HL 340, Destination Development

To fulfil the minor requirement, select 3 hours from the following courses (focus in parentheses):

Course			Focus
REC	302	Ecotourism	Environmental
GRY	318	Geography of the National Parks	Social & Environmental
GRY	321	Economic Geography	Economic
GRY	322	Urban Geography	Development
GRY	325	Rural Geography	Development
PLN	371	History and Introduction to Planning	Development
ANT	314	Environmental Anthropology	Social
ANT	514	Development	Development
ANT	516	Anthropology of Tourism	Tourism & Development
ANT	550	Cultural Resource Management	Tourism & Development
MKT	350	Principles of Marketing	Tourism & Development
MKT	474	International Marketing	Tourism & Development
PLS	573	Policy Analysis	Social
SOC	319	Environmental Sociology	Social & Environment

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Missouri State.

Curricular Action Workflow



New Program Proposal Form

Submitted on 04/01/2019 by Toby Dogwiler (TDogwiler@MissouriState.edu).

This form is to be used for internal Missouri State approval of any proposal for a new program involving two or more courses, including any new graduate program, new undergraduate major (whether comprehensive or non-comprehensive), new option within an existing program (whether graduate or undergraduate), new minor, new certificate, or new certification program.

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.

Department:

Geography, Geology, & Planning

Proposed Program Title:

Paleontology Certificate

Choose One:

- Non-Comprehensive Undergraduate Major
 Comprehensive Undergraduate Major
 Graduate Program
- Option
 Minor
 Certificate
- Certification
 Academic Rules
 Other

Does this program include any new courses?

- No Yes (A corresponding new course form must be submitted to create each new course.)

Select Degree Type (or Select Graduate Certificate or Undergraduate Certificate):

UGCT - Undergraduate Certificate

General Education Courses Required:

GLG 115 Life of the Past

Total Hours: 3

General Education Courses Recommended:

None

Total Hours: 0

Requirements (including Admission) and Limitations for Specific Degree/Program:

Must obtain a grade of C or better in all courses used to fulfill the certificate requirements

Total Hours: 0

Courses Required in Department:

10

Rational for Paleontology Certificate

Paleontology generally requires graduate-level study for students interested in pursuing this field. This certificate provides students with an interdisciplinary set of courses, that when combined with an appropriate major, will prepare them for graduate-level paleontological studies. Additionally, this certificate will provide students the opportunity to develop a foundational level of knowledge that will provide an understanding of paleontology that can be applied to various careers, especially in geology, anthropology, and biology.

10

Projected Costs:

This certificate program is strategically comprised of current geology, anthropology, and biology courses. The required courses are all regularly taught within the load of existing faculty. No new courses, faculty, or other resources are required to support this certificate.

10

Paleontology

This certificate provides an undergraduate level program for students and professionals who desire a foundational knowledge of paleontology or are preparing for graduate study in paleontology.

Program Requirements (12-14 hours)

- A. GLG 115(3), GLG 415(4)*
- B. Complete two courses five to seven additional hours from the following list of courses: GLG 314(3); BIO 122(4), 501(2), 515(3), 539(3); ANT 125(3), 227(3), 375(3)
- C. All candidates must satisfy the General University Certificate Requirements

*The GLG 314 prerequisite requirement for GLG 415 will be waived upon request for Biology, Anthropology, or students with similar backgrounds.

Program Completion Requirement

Must obtain a grade of C or better in all courses used to fulfill the certificate requirements