

WINONA STATE UNIVERSITY
NOTIFICATIONS

Department Mathematics & Statistics

Date 11/7/2013

If the proposed curricular change involves existing courses and is considered a Notification, complete and submit this form. Refer to Regulation 3-4, *Policy for Changing the Curriculum*, for complete information on submitting proposals for curricular changes.

Please check type of change(s):

- Reduction in course number
- Change in grading option
- Change in hours or credits in an independent study course
- Change in course title
- Change in course description*
- Change in existing major, minor, option, concentration, etc.*
- Change in prerequisites
- Change in course number within level, e.g. 310 to 350
- Change in delivery method

A. **Current** Course Information

STAT 301 Statistical Thinking for Healthcare 3
Course No. Course Title Credits

This proposal is for a(n) Undergraduate Course Graduate Course

Applies to Major Minor
 Required Required
 Elective Elective

Prerequisites Qualification by math placement exam or associate degree

Grading Grade only P/NC only Grade and P/NC Option

Frequency of offering every semester

Proposed Course Information. (Please indicate only proposed changes below.)

STAT 301 Statistical Thinking for Healthcare 3
Course No. Course Title Credits

Prerequisites MATH 100 or higher or STAT 110 or higher or permission of instructor.

Grading Grade only P/NC only Grade and P/NC Option

Frequency of offering every semester Effective date (normally the next semester) Spring, 2014

B. *If the proposal requests a change in the course description, please attach a description of the change requested and list both the current and proposed course description. If the proposal requests a change in an existing major, minor, option, concentration, etc., please attach a description of the change(s) requested and list both the current and proposed program listings.

Approved by the Department [Signature] 11/12/13
Department Chair Date
bdeppa@winona.edu
e-mail address

Notification to the College Dean Yes No
Charla Smith 11/13/13
Dean of College Date

Presented at A2C2 meeting on 11/20/2013 [Signature]
Date Chair of A2C2

Presented at Graduate Council meeting on (if applicable) _____
Date Chair of Graduate Council

Submitted to Registrar on 11/21/2013
Date Registrar: Please notify department chair via e-mail that Notification has been recorded.

*If a dean has comments on a notification, the dean shall forward the comments to the department. [Revised 7-13-11]

5 11/13/13

Winona State University - Department of Mathematics & Statistics
Minutes of the Meeting on 11/7/13

Present: John Czaplewski, Joyati Debnath, Brant Deppa (chair), Jeff Draskoci-Johnson, Eric Errthum, Sue Florin, Tisha Hooks, April Kerby, Chris Malone, Mike Markegard, Chris Phan, Dan Rand, Sam Schmidt, Samuel Tsegai, Aaron Wangberg, Nicole Williams, Lee Windsperger

Announcements:

- 1) See forthcoming e-mail from Dean Miertschin regarding travel policy and absences.
- 2) Distinguished graduates are due to Tom Bremer by Friday, Nov. 22nd.
The subgroups need to make their selections and get them to Eric ASAP.
- 3) April Honor's Registrations will be held on three consecutive Fridays. Majors in the College of Science & Engineering are tentatively scheduled for Friday, March 28th.
- 4) Summer Incentive Money – Our Summer 2013 incentive money is \$38,165.44 and our carry forward of Summer 2012 money is \$11,821.87 for a total of \$49,987.31.
- 5) Regional Science & Engineering Fair – Friday, Feb. 28, at Saint Mary's University.
They mainly need judges. Contact Chris Malone for info.
- 6) WSU Testing Center – I will share information from the initial meeting.
- 7) Sean Auto from Trane will be giving a seminar on Friday.
- 8) There is still room for one more to join the trip to the U of M graduate School on Monday, 11/11.

New Business

1) Committee Reports

- Equipment/Software
No report
- Seminar, Library, & Colloquium (SLAC)
No report
- * Mathematics Subgroup
They will be assigning upper-division course for next year at the meeting on 11/19.
- * Mathematics Education Subgroup
No report

- Statistics Subgroup
See motion below.
- Student Opportunities and Social Activities (SOSA)
As noted, we need the names fo the distinguished graduates for this semester.
- Communications Committee
 - (i) All wall posters have been updated.
 - (ii) They're still waiting for information from some seniors.
- Statistics Search
They are reviewing files, and hope to begin phone interviews next week.
- Mathematics Education Search
They should be able to start reviewing files next week.
- Renovations Taskforce
Jeff will resume his post as chair and call a meeting soon.
- Mathematics Placement Task Force (has yet to meet)
Brant called a meeting for Wednesday, 11/13, at 12:15.
- MAC
They are looking for tutors; please let Mike know about any good candidates.

Department Representatives

- A2C2 & GEP

They are discussing what to do about interdisciplinary programs that are not housed in a department. For many university purposes, the department chair, who is elected, plays a key role. Should an unelected program director act as a substitute? What about programs that don't even have a director?

Teacher Education Assembly (TEA)

No report

2) Minutes from 10/17/13

The minutes were approved by unananimus consent.

3) STAT 301 – Math/Stat Flag proposal – pre-requisite change

Motion (from Dan Rand): I move that the prerequisite for STAT 301 be changed from Qualification by math placement exam or associate degree to MATH 100 or above, or STAT 110 or above, or permission of instructor.

*
Rationale:

In the process of getting STAT 301 approved as a Math-Stat flag/ intensive, which is in turn to satisfy a request by the Director of the Healthcare Leadership and Administration (HLA) degree program, we were asked to change the prerequisite .In fact, GEPS approved our request on the condition that the change in prerequisite is approved by A2C2.

- (i) Jeff seconded the motion.
- (ii) A friendly amendment was offered, changing the wording to what appears above. (The changes appear in uppercase.)
- (iii) The motion passed.

4) Research Methods and Communication in Mathematics (MATH 480) and Research Methods and Communication in Statistics (STAT 489) for Spring Semester 2014

Motion (from Chris Malone): The department will offer a 2 S.H. capstone preparation course via special topics course numbers (MATH & STAT) for current juniors and seniors in our department. The proposed syllabus for this course is attached and Chris Malone will be teaching this course. Students will be register for whichever course is most appropriate for their major/interests.

- (i) The working course outline is appended below.
- (ii) Eric seconded the motion
- (iii) A correction was made to that outline, which appears in uppercase.
- (iv) Jeff volunteered to help grade the writing assignments.
- (v) The motion passed.

5) Adjourn

We adjourned about 1:35.

Respectfully submitted,
Jeff Draskoci-Johnson

MATH 480: Research Methods and Communications in Mathematics / STAT 489:
Research Methods and Communications in Statistics

Credits: 2

Anticipated Audience: JR class standing

Proposed Course Content:

- General Capstone Information
 - Introduce expectations for capstone experience
 - INVITE ALL faculty TO discuss THEIR research areas and/or other capstone experience opportunities to students

- Encourage / assist in coordination of REUs, Internships, or other summer opportunities
- Literature Reviews
 - Reading published undergraduate research
 - Reading prior WSU completed capstone/research papers
 - Accessing online article databases and utilizing library resources
- Presentation Skills
 - Observe and critique seminar and colloquia presentations using well-established rubrics
 - Observe and critique student presentations
 - Observe and critique student posters
 - Presenting on assigned topics
- Writing Skills
 - Critiquing writing samples using well-established rubrics
 - Learn how to write an abstract
 - Organization of content / outline construction
 - Writing appropriate conclusions for completed work

Learning Objectives:

1. Introduce students to the research/capstone requirement for degrees in mathematics or statistics. An anticipated outcome would be for students to have identified their project before the completion of this course.
2. Teach students the necessary skills for writing and presenting technical research in the area of mathematics or statistics.