Proposal to Change Degree Requirements For the Major

**NOTE:** All gray text boxes must be completed (even if you just put N/A into them), otherwise the committee must consider the form incomplete.

1. Department: **Mathematics**
2. Degree: **Bachelor of Science (Statistics Education Track)**
3. Semester and year in which degree change(s) will go into effect: **Fall 2011**
4. Change(s) Desired (Note: if the change includes deleting courses from the inventory, a Delete Course form must also be completed for each course, the Curriculum Committee does not assume the responsibility to delete the course):

   CURRENTLY THE REQUIREMENTS FOR THE STATISTICS TRACK ARE

   Math 120 Introductory Calculus  
   Math 203 Linear Algebra  
   Math 220 Calculus II  
   Math 221 Calculus III  
   Math 250 Statistical Methods I  
   Math 295 An Introduction to Abstract Mathematics  
   Math 311 Advanced Calculus I  
   Math 350 Statistical Methods II  
   Math 430 Mathematical Statistics I  
   Math 431 Mathematical Statistics II

   One of the following course/lab pairs

   Math 245 Numerical Methods and Mathematical Computing and  
   Math 246 Mathematical Computing and Programming Laboratory  
   or  
   CSCI 220 Computer Programming I and  
   CSCI 221 Computer Programming I Laboratory

   Six additional hours chosen from:

   Math 440 Statistical Learning I  
   Math 441 Statistical Learning II  
   Math 451 Linear Programming  
   Math 452 Operations Research  
   Math 455 Bayesian Statistical Methods  
   CSCI 334 Data Mining

   Note: Math 475 Statistical Consulting is the recommended capstone for this track.

   Minimum 46 hours of mathematics
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THE PROPOSED REQUIREMENTS FOR THE STATISTICS TRACK ARE

Math 120 Introductory Calculus
Math 203 Linear Algebra
Math 220 Calculus II
Math 221 Calculus III
Math 250 Statistical Methods I
Math 295 An Introduction to Abstract Mathematics
Math 311 Advanced Calculus I
Math 350 Statistical Methods II
Math 430 Mathematical Statistics I
Math 431 Mathematical Statistics II

One of the following course/lab pairs

Math 245 Numerical Methods and Mathematical Computing and
Math 246 Mathematical Computing and Programming Laboratory
or
CSCI 220 Computer Programming I and
CSCI 221 Computer Programming I Laboratory

Nine additional hours chosen from:

Math 440 Statistical Learning I
Math 441 Statistical Learning II
Math 451 Linear Programming
Math 452 Operations Research
Math 455 Bayesian Statistical Methods
Math 475 Statistical Consulting
CSCI 334 Data Mining

Minimum 46 hours of mathematics

5. Justification for Change(s):
Math 475 Statistical Consulting, provides valuable experience applying statistical methods of
data analysis to actual real world problems. Without Math 475 at least listed as an elective, it
is difficult for the course to run. Adding 3 hours to the electives while adding Math 475 to
the list of electives increases the likelihood the course will be chosen, while more accurately
aligning the course requirements with the minimum credit hour requirement.

6. Does the change include deleting or adding courses from other departments? If yes, what
department/program? Please contact the department chair/program director and request a
note or email that they are aware of the proposed change and include that note with the
proposal.
No
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6. Signature of Department Chair (s) or Program Director(s):
   ___________________________ Date: ______________
   ___________________________ Date: ______________

7. Signature of Dean(s) of School:
   ___________________________ Date: ______________
   ___________________________ Date: ______________

8. Signature of Provost:
   ____________________________________________
   Date: __________________________

9. Signature of Curriculum Committee Chair:
   ____________________________________________
   Date: __________________________

10. Signature of Budget Committee Chair:
    ____________________________________________
    Date: __________________________

11. Signature of Planning Committee Chair:
    ____________________________________________
    Date: __________________________

12. Signature of Faculty Senate Secretary:
    ____________________________________________
    Date approved by Senate: ______________________

Completed form should be sent by the Faculty Senate Secretary to the Registrar. After implementation, information concerning the passed course and program changes will be provided by the Registrar to all faculty and staff on campus.