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Action-Date: _____

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LIBERAL STUDIES

UWUCC USE Only
Number: 98-54
Submission Date: _____
Action-Date: App 5/4/99
Senate App 9/14/99

CURRICULUM PROPOSAL COVER SHEET
University-Wide Undergraduate Curriculum Committee

I. CONTACT

Contact Person Gerald Buriok Phone 7 2608

Department Mathematics

II. PROPOSAL TYPE (Check All Appropriate Lines)

_____ **COURSE** _____
Suggested 20 character title

_____ New Course* _____
Course Number and Full Title

_____ Course Revision _____
Course Number and Full Title

_____ Liberal Studies Approval+ for new or existing course _____
Course Number and Full Title

_____ Course Deletion _____
Course Number and Full Title

_____ Number and/or Title Change _____
Old Number and/or Full Old Title

_____
New Number and/or Full New Title

_____ Course or Catalog Description Change _____
Course Number and Full Title

X **PROGRAM:** _____ Major X Minor _____ Track

_____ New Program* _____
Program Name

X Program Revision* Minor - Applied Statistics
Program Name

_____ Program Deletion* _____
Program Name

_____ Title Change _____
Old Program Name

_____
New Program Name

III. Approvals (signatures and date)

Maher K. Shawwa 2/24/99
Department Curriculum Committee

Gerard M. Buriok 2/24/99
Department Chair

_____
College Curriculum Committee

_____ 3/23/99
College Dean

_____
+Director of Liberal Studies (where applicable)

_____
*Provost (where applicable)

II. Description of Curriculum Change.

1. Catalog description for revised program.

Minor - Applied Statistics **16**

The minor in Applied Statistics consists of at least 16 semester hours selected as follows:

a) Introductory calculus course: MA121 or MA123
b) Introductory statistics course: MA214 or MA216 or MA217
c) MA417
d) MA418

The remaining hours may be chosen from the following:

a) A second calculus course: MA122 or MA124
b) MA171
c) QB215
d) Any course for mathematics majors approved by the Applied Statistics Advisor.

2. Summary of changes.

a) Table comparing old and new programs.

Old Program	New Program
The minor in Applied Statistics consists of 17 semester hours in Mathematics selected as follows:	The minor in Applied Statistics consists of at least 16 semester hours selected as follows:
a) Introductory calculus course: MA121, 123, or 127 b) Introductory statistics course: MA214,216, or 217 c) MA417 d) MA418	a) Introductory calculus course: MA121 or MA123 b) Introductory statistics course: MA214 or MA216 or MA217 c) MA417 d) MA418
The remaining hours may be chosen from the following:	The remaining hours may be chosen from the following

a) A second calculus course:
MA122, 124, or 128
b) MA171

c) Any course for mathematics majors approved by the Applied Statistics Advisor.

a) A second calculus course:
MA122 or MA124
b) MA171
c) QB215
d) Any course for mathematics majors approved by the Applied Statistics Advisor.

b) List of all associated course changes.

1. MA127 has been deleted from the list of acceptable calculus courses in the first category.
2. MA128 has been deleted from the list of acceptable second calculus courses in the second category.
3. QB215 Business Statistics has been added to the list of courses in the Second category.
4. The number of credits required for the minor has been reduced from 17 to 16.

c) Rationale for changes.

MA127 and MA128 are no longer being taught. During the 1997-98 academic year, the Mathematics Department received Senate approval for curriculum changes eliminating the calculus sequence MA127, 128, 227 and replacing it with the sequence MA123,124. Deletion of these courses brings the description of the minor up to date.

Students in the College of Business are required to complete a two semester sequence in statistics consisting of MA214 and QB215. The faculty of the Mathematics Department have concluded the content of QB215 fits well into the concept of a minor in applied statistics, so this course has been added to the list of acceptable choices. Since MA121,MA214, and QB215 are required for business students, they will be able to complete the minor by taking only MA417 and MA418 in addition. The inclusion of these two courses and a minor in applied statistics on their transcripts will enhance employment prospects for some students.

The minor has previously required 17 credits. For students outside the College of Natural Sciences and Mathematics, this was generally accomplished by taking two semesters of calculus for 8 credits, MA417, MA418, and one additional 3 credit course. In an effort to make the minor more flexible, the requirement is being

reduced to 16 credits. These credits can be attained by taking one calculus class, MA417, MA418, and two additional 3 credit courses. The faculty of the Mathematics Department feel their are many courses, including MA171 and QB215, which would be just as valuable as a second calculus course for students seeking a minor in applied statistics.

III. Implementation.

1. Once the proposed revision is approved, students already in the existing program will be permitted to change to the new program.

2. The proposed change will have little or no affect on faculty teaching loads.

3. The proposed revision will have no affect on resources.

4. The proposed revision may make the minor in applied statistics attractive to more students in the College of Business, thus causing a slight increase in enrollments in certain courses. On the other hand, QB215 is taught outside of the Mathematics Department, and allowing it to count toward the minor may cause a slight decrease in the enrollments in certain courses. At any rate, the changes will most likely be negligible.

IV. Course Proposals. None.

V. Letters of Support. Attached.

Students in the College of Business are required to complete a two semester sequence in statistics consisting of MA214 and QB215. The faculty of the Mathematics Department have concluded the content of QB215 fits well into the concept of a minor in applied statistics, so this course has been added to the list of acceptable choices. Since MA121,MA214, and QB215 are required for business students, they will be able to complete the minor by taking only MA417 and MA418 in addition.

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In order for the revised minor in applied statistics to be approved by the University-Wide Undergraduate Curriculum Committee (UWUCC), and eventually the full Senate, letters of support from affected departments must accompany the proposal. The purpose of this memo is to request that you send me a letter of support, or that you affix your signature below and return this letter to me

I support the proposed revisions to the Minor in Applied Statistics.

Chairperson 2/15/99 Date Department

cc: Dr. Robert Camp, Dr. Manmohan Chaubey
Dr. Mohamed Albohali, Dr. Maher Shawer

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Chairperson 2/16/99 Date

Technology Support & Training Department

cc: Dr. Robert Camp, Dr. Manmohan Chaubey
Dr. Mohamed Albohali, Dr. Maher Shawer

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David C. Hoffman 2.16.99 Finance & Legal Studies.

Chairperson Date Department

cc: Dr. Robert Camp, Dr. Manmohan Chaubey
Dr. Mohamed Albohali, Dr. Maher Shawer

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02/16/99 MANAGEMENT

Chairperson Date Department

cc: Dr. Robert Camp, Dr. Manmohan Chaubey
Dr. Mohamed Albohali, Dr. Maher Shawer

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[signature] MAR 1, 91		Mathematics
Chairperson	Date	Department

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Dr. Mohamed Albohali, Dr. Maher Shawer