To be adopted:

Proposed Changes to Statistics Minor

**PRESENT:**

**Minor**
The minor in **Applied Statistics** is designed to give students in either the social sciences or the physical sciences a cohesive set of statistics courses to deal with the data analytic aspects of their disciplines and to understand the statistical summaries that are encountered in everyday activities.

The requirements for the minor consist of at least 24 and not more than 28 upper-division units in Statistics to include the following:

1. STAT 100A, STAT 100B, STAT 147
2. Twelve (12) units from STAT 110, STAT 127/BUS 127, STAT 130, STAT 140, STAT 146, STAT 157, STAT 160A, STAT 160B, STAT 160C, STAT 167

Of the specified upper-division units, a minimum of 16 must be unique to the minor and may not be used to satisfy major requirements.

No more than 4 units may be in courses numbered 190 through 199.

See Minors under the College of Natural and Agricultural Sciences in the Colleges and Programs section of this catalog for additional information on minors.

**PROPOSED:**

**Minor**
The minor in **Statistics** is designed to give students in either the social sciences or the physical sciences a cohesive set of statistics courses to deal with the data analytic aspects of their disciplines and to understand the statistical summaries that are encountered in everyday activities.

The following are the requirements for the minor in Statistics.

1. **Lower-division requirements (10 units):**
   - STAT 010, STAT 011

2. **Upper-division requirements (24 units):**
   a) STAT 107
   b) STAT 156A or STAT 160A, STAT 156B or STAT 160B
   c) Twelve (12) units of upper-division statistics courses excluding STAT 155.

Of the specified upper-division units, a minimum of 16 must be unique to the minor and may not be used to satisfy major requirements.

No more than 4 units may be in courses numbered 190 through 199.

See Minors under the College of Natural and Agricultural Sciences in the Colleges and Programs section of this catalog for additional information on minors.

**Justification:**
The proposed revisions for the minor in Statistics are motivated by a comprehensive review of the undergraduate statistics courses and programs. Previously, the minor required upper-division STAT coursework only. This proposal separates the requirements to include both lower-division and upper-
division STAT courses. This change is being made to reflect the renumbering of STAT 100A to STAT 010 and STAT 100B to STAT 011 which reclassifies these courses from upper-division to lower-division. Due to this change, the upper-division requirements are reduced to 16 units. CNAS regulation NR3.4.3 requires a minor to “consist of not fewer than 20 nor more than 28 units of organized upper division courses”. To satisfy this regulation and strengthen the training for STAT minor students, STAT 156AB or STAT 160AB has been added as requirements. These are mathematical statistics courses that provide important statistical foundation and theory coursework. The addition of these courses also prompts changing the name of the minor to Statistics (removing “Applied”) to better reflect the program’s required courses and their content. The renumbering of STAT 147 to STAT 107 is also reflected in this proposal. Finally, the list of courses associated with the twelve elective units of upper-division STAT coursework has been expanded to include more choices for students.

Approvals:
Approved by the faculty of the Department of Statistics: October 30, 2020
Approved by the Executive Committee of the College of Natural and Agricultural Sciences: January 19, 2021
Approved by the Committee on Educational Policy: April 22, 2021