Specific learning outcomes and assessment strategies have not been developed for this minor program, so the template is not applicable to the Minor in Mathematics. Students completing a Minor in Mathematics have two programs from which to choose. Option I requires 20-21 units and consists of two semesters of calculus, Math 30 (Calculus I) and Math 31 (Calculus II), one other lower division course chosen from Math 32 (Calculus III), Math 35 (Introduction to Linear Algebra) or Stat 50 (Introduction to Probability and Statistics), and nine units of upper division Mathematics and/or Statistics courses selected with approval of a Mathematics advisor. Option II is designed for students majoring in Science or Engineering and requires 20 units of coursework: Math 30 (Calculus I), Math 31 (Calculus II), Math 32 (Calculus III), Math 105A (Advanced Mathematics for Science and Engineering I), and Math 105B (Advanced Mathematics for Science and Engineering II).

Period of reference in the template: 2006-07 to present

1. Please describe your program’s learning-outcomes trajectory since 2006-07: Has there been a transformation of organizational culture regarding the establishment of learning outcomes and the capacity to assess progress toward their achievement? If so, during which academic year would you say the transformation became noticeable? What lies ahead; what is the next likely step in developing a learning-outcomes organizational culture within the program?

[Please limit your response to 200 words or less]

2. Please list in prioritized order (or indicate no prioritization regarding) up to four desired learning outcomes (“takeaways” concerning such elements of curriculum as perspectives, specific content knowledge, skill sets, confidence levels) for students completing the program. For each stated outcome, please provide the reason that it was designated as desired by the faculty associated with the program.
   a)
   b)
   c)
   d)

[Please limit your response per outcome to 300 words or less]

3. For undergraduate programs only, in what ways are the set of desired learning outcomes described above aligned with the University’s Baccalaureate Learning Goals? Please be as specific as possible.

[Please limit your response to 400 words or less]

4. For each desired outcome indicated in item 2 above, please:
a) Describe the method(s) by which its ongoing pursuit is monitored and measured.
b) Include a description of the sample of students (e.g., random sample of transfer students declaring the major; graduating seniors) from whom data were/will be collected and the frequency and schedule with which the data in question were/will be collected.
c) Describe and append a sample (or samples) of the “instrument” (e.g., survey or test), “artifact” (e.g., writing sample and evaluative protocol, performance review sheet), or other device used to assess the status of the learning outcomes desired by the program.
d) Explain how the program faculty analyzed and evaluated (will analyze and evaluate) the data to reach conclusions about each desired student learning outcome.

[Please limit your response to 200 words or less per learning outcome]

(If the requested data and/or analysis are not yet available for any of the learning outcomes, please explain why and describe the plan by which these will occur. Please limit your response to 500 words or less.)

5. Regarding each outcome and method discussed in items 2 and 4 above, please provide examples of how findings from the learning outcomes process have been utilized to address decisions to revise or maintain elements of the curriculum (including decisions to alter the program’s desired outcomes). If such decision-making has not yet occurred, please describe the plan by which it will occur.

[Please limit your response to 200 words or less per item]
a) 
b) 
c) 
d) 

6. Has the program systematically sought data from alumni to measure the longer-term effects of accomplishment of the program’s learning outcomes? If so, please describe the approach to this information-gathering and the ways in which the information will be applied to the program’s curriculum. If such activity has not yet occurred, please describe the plan by which it will occur.

[Please limit your response to 300 words or less]

7. Does the program pursue learning outcomes identified by an accrediting or other professional discipline-related organization as important? Does the set of outcomes pursued by your program exceed those identified as important by your accrediting or other professional discipline-related organization?

[Please limit your response to 300 words or less]

8. Finally, what additional information would you like to share with the Senate Committee on Instructional Program Priorities regarding the program’s desired learning outcomes and assessment of their accomplishment?

[Please limit your response to 200 words or less]