

Course: Math 101 Fundamental Mathematical Concepts II

1. Date of Application: 12/1/2011
2. Name, Dept of Proposer: Math dept, Mathematics and Computer Science
3. Name of Dept/Program housing course: Mathematics and Computer Science
4. Name of Chair/PD: Chris Jones
5. How often is the course taught: yearly
6. Course Prerequisites: Math 1 or 27 or equivalent
7. Unit value of course: 1
8. Normal Class Size: 18
9. Number of sections expected Fall 2012: 0
10. Number of sections expected Spring 2013: 0
11. Is the course appropriate for first-year students: Yes
12. Relevant Learning Goal(s): Mathematical Understanding
13. Chair will oversee submission of student work: Yes
14. Chair will oversee instructor participation in norming/asst: Yes

15. Teaching: "Math 101 is taken exclusively by majors in the Liberal and Civic Studies program in their freshmen or sophomore years. It does not satisfy an upper division elective for math majors or minors.

The first learning outcome will be met in the course material, in particular through applying abstract and logical reasoning and the identification of patterns to the study of geometry. The study of probability and statistics in addition to the geometry will also involve the logical reasoning and the study of patterns. The majority of the content will be covered by lecture and textbook reading.

The second learning outcome will be met through, homework, examination, presentations and class discussion. In all written work students will be expected to accurately use mathematical terms, communicate concepts and use mathematical symbols, language and formulas. Students will also be required during class discussion and presentations, to accurately use mathematical terms."

16. Learning: "The first learning outcome will be assessed through homework and examination. Math 101 contains at least two, possibly three midterm examinations as well as a cumulative final examination. Students will also be required to hand in written homework. The examinations and written homework assess students' ability to apply abstract and logical reasoning, identify patterns and solve mathematical problems.

The second learning outcome will be assessed through homework and examination. Math 101 contains at least two, possibly three midterm examinations as well as a cumulative final examination. Students will also be required to hand in written homework. By written homework and exams, we mean written work that includes not only the final answer to a mathematical problem, but a mathematical description of the steps taken to find the answer. Through the examinations and written homework students will communicate mathematical ideas and concepts accurately and clearly using mathematical symbols, language, and formulas.

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