Symbolic Reasoning (FS)

1. Students will be exposed to the beauty, power, clarity and precision of formal systems. *How will the course meet this hallmark?*

2. Instructors will help students understand the concept of proof as a chain of inferences. *How will instructors help students understand this concept?*

3. Instructors will teach students how to apply formal rules or algorithms. *How will instructors meet this hallmark?*

4. Students will be required to use appropriate symbolic techniques in the context of problem solving, and in the presentation and critical evaluation of evidence. *What symbolic techniques will be required and in what contexts? How will presentations and evaluations of evidence be incorporated into the course?*

5. The course will not focus solely on computational skills. *What reasoning skills will be taught in the course?*

6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge. *How will instructors help students make connections between theory and practice?*

Approved UHM Courses

- ICS 141 Discrete Mathematics for Computer Science I
- ICS 241 Discrete Mathematics for Computer Science II
- MATH 100 Survey of Mathematics
- MATH 140 Trigonometry and Analytic Geometry
- MATH 203 Calculus for Business and Social Sciences
- MATH 215 Applied Calculus I
- MATH 241 Calculus I
- MATH 251 Accelerated Calculus I
- PHIL 110 Introduction to Logic