Proposed Math & CS with Teaching B.S. TUteach Degree.

List of Mathematics Content Requirements:
- Math 1041 (4 cr.) Calculus I
- Math 1042 (4 cr.) Calculus II
- Math 2043 (4 cr.) Calculus III
- Phys 1061 (4 cr.) Elementary Classical Physics I
- Phys 1062 (4 cr.) Elementary Classical Physics II
- Math 2101 (3 cr.) Linear Algebra
- Math 3003 (3 cr.) Theory of Numbers
- Math 3061 (3 cr.) Modern Geometry I
- Math 3096 (3 cr.) Introduction to Modern Algebra
- Math 3137 (3 cr.) Advanced Calculus I
- Math 3138 (3 cr.) Advanced Calculus II
- Math 4096 (3 cr.) Senior Problem Solving Seminar

Subtotal 41 credits

List of Computer Science Content Requirements:
- CIS 1068 (4 cr.) Program Design and Abstraction
- CIS 1166 (4 cr.) Math Concepts in Computing I or Math 2196 (3 cr.) Basic Concepts of Math
- CIS 2107 (4 cr.) Computer Systems & Low-Level Programming
- CIS 2166 (4 cr.) Mathematical Concepts in Computing II
- CIS 2168 (4 cr.) Data Structures

Subtotal 20 credits

List of TUteach Additional Requirements:
- CST 1189 (1 cr.) Step 1
- CST 1289 (1 cr.) Step 2
- Educ 2179 (3 cr.) Knowing and Learning
- MAES/SCES 2189 (3 cr.) Classroom Interactions
- Phil 2196 (3 cr.) Perspectives on Science and Math
- Math 2021 (3 cr.) Functions & Modeling (Only for Mathematics TUteach programs)
- Educ 2179 (3 cr.) Language & Literacy in Math & Sci
- Bio/Chem/EES/PHYS 3091 (3 cr.) Research Methods
- MAES/SCES 4189 (3 cr.) Project-Based Instruction
- Educ 4388 (6 cr.) Apprentice Teaching
- Educ 4802 (1 cr.) Apprentice Teaching Seminar

Subtotal 30 credits

Total 91 credits
Comparison to old Math & CS with Teaching BS:

**Changed**
CIS 4298 Software Engineering (4 cr.) or CIS 4397 Projects in Computer Science (4 cr.) removed as options for the capstone—all will take Math 4096 (3 cr.)

**Removed**
CIS 3207 (4 cr.) Introduction to Systems Programming & Operating Systems