# Central Connecticut State University

# Department of Mathematical Sciences

# Bachelor of Science, Secondary Mathematics Education

|    | Learning Outcomes |
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| 1. | Understand basic analytic arguments using such common notions as epsilon/delta, infinite sums, and limits |
| 2. | Understand basic algebraic and discrete notions, such as facts about vector spaces and counting arguments. |
| 3. | Be able to follow and recreate algebraic proofs, with a good understanding of groups. |
| 4. | Be able to both follow and recreate analytic proofs, including basic ideas involving abstract metric spaces and differential equations. |
| 5. | Apply mathematical principles to the solution of problems, including real world applications |
| 6. | Understand issues concerning the mathematics curriculum for grades 7-12 |
| 7. | Develop skills necessary to become an effective teacher of mathematics |