BS/MAT Mathematics Checklist

Undergraduate Coursework

1. MAT 131/132 or MAT 125/126/127 or MAT 141/142 or AMS 151/161
   Calculus I Calculus A/B/C Honors Calculus I/II Applied Calculus III

2. MAT 203 or MAT 205 or AMS 261
   Calculus III with Applications Calculus III Applied Calculus III

3. MAT 211 or AMS 210
   Linear Algebra Applied Linear Algebra

4. MAT 200
   Logic, Language, and Proof

5. MAT 303 or AMS 361
   Calculus IV with applications Applied Calculus IV

6. MAT 331 or CSE 110 or CSE 114
   Computers and Math Problem Solving Possible substitutes
   MAE 330 may NOT be substituted

7. MAT 312 or MAT 313
   Applied Algebra Abstract Algebra

8. MAT 360 or MAT 364
   Geometric Structures Topology and Geometry

9. MAT 319 or MAT 320
   Foundations of Analysis Introduction to Analysis

10. AMS 310
    Probability and Statistics

11. MAT 310
    Linear Algebra

12. MAT 342
    Applied Complex Analysis

OR permission from director of undergraduate math program or teacher education program

   MAT 322 or MAT 324 or MAT 341
   Analysis in Several Dimensions Measure Theory Applied Real Analysis

13. MAT 336
    History of Math

14. Six additional units of approved mathematics coursework. Two courses, 6 credits

   a. Mathematics Elective
   b. Mathematics Elective

15. PSY 327

16. CEF 347/547 Special Education
Graduate Coursework

1. MAT 517
   Calculators and Computers for Teachers

2. Two 500-level mathematics content courses, to be approved by director of MAT in mathematics.
   a. __________________________
      Content Elective
   b. __________________________
      Content Elective

3. MAE 501
   Foundations of Secondary Math curriculum

4. MAE 510
   Methods I

5. MAE 520
   Methods II

6. MAE 530__________ and MAE 540__________
   Directed Readings in Math Education
   Clinical Experience

7. MAE 551__________ and MAE 552__________ and MAE 554__________
   Student Teaching Middle Grades
   Student Teaching High School
   Student Teaching Seminar

8. CEE 594
   Language Acquisition and Literacy Development

9. CEE 505
   Education: Theory and Practice