

**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/II    Calculus A/B/C    Honors Calculus I/II    Applied Calculus I/II
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 \_\_\_\_\_ *MAE 330 may NOT be substituted*  
Computers and Math Problem Solving    Possible substitutes
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. \_\_\_\_\_ b. \_\_\_\_\_  
Mathematics Elective    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