Student's Name_____Stony Brook ID_____

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_____

Undergraduate University Requirements

Meet all Stony Brook University Degree Requirements, (see catalog), including:

1. Complete 120 undergraduate credits, of which 15 may come from the courses listed below. _____

2. Complete all SBC requirements. _____

3. Complete 39 upper-division credits _____

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._____   b._____
      Content Elective   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