# Mathematics Education Courses

**MAE 301  Foundations of Secondary School Mathematics**  
Note: Offered as MAE 301 and MAE 501  
**Final:** Tuesday, Dec. 15, 11:15am-1:45pm  
<table>
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<tr>
<th>LEC 01</th>
<th>86982</th>
<th>7/25</th>
<th>TuTh 2:30pm-3:50pm</th>
<th>Lisa Berger</th>
<th>Mathematics 4130</th>
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**MAE 311  Intro. to Methods of Teaching Secondary School Math**  
Note: Offered as MAE 311 and MAE 510  
**Final:** Tuesday, Dec. 15, 2:15pm-5:00pm  
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**MAE 312  Micro-Teaching**  
Note: Offered as MAE 312 and MAE 540  
**Final:** Wed. Dec. 9, 5:30pm-8:00pm  
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<th>Mathematics 4130</th>
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**MAE 447  Directed Readings in Math**  
Note: offered as MAE 447 and MAE 530  
| T01 | 87773 | 3/25 | Tu 2:30pm-3:20pm | Alaa Abd-El-Hafez | Mathematics 4130 | 35 |
MAE 451  Supervised Student Teaching, Middle School  
Note: Offered as MAE 451 and MAE 551  
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MAE 452  Supervised Student Teaching, High School  
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MAE 454  Student Teaching Seminar  
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MAE 501  Foundations, Secondary School Math Curriculum  
Note: Offered as MAE 501 and MAE 301  
| LEC 01 | 86983 | 7/ 25 | TuTh 2:30pm-3:50pm | Lisa Berger | Mathematics 4130 | 35 |

MAE 510  Intro to Methods of Teaching  
Note: Offered as MAE 510 and MAE 311  
| LEC 01 | 84429 | 7/ 24 | TuTh 4:00pm-5:20pm | Derek Pope | Mathematics 4130 | 35 |

MAE 530  Directed Readings and Research  
Note: offered as MAE 447 and MAE 530  
| T01  | 87774 | 3/ 25 | Tu 2:30pm-3:20pm | Alaa Abd-El-Hafez |

MAE 540  Clinical Experience  
Note: Offered as MAE 540 and MAE 312  
| S01  | 84888 | 3/ 25 | W 2:30pm-3:50pm | Alaa Abd-El-Hafez | Mathematics 4130 | 35 |

MAE 551  Supervised Student Teaching, Middle School  
Note: Offered as MAE 551 and MAE 451  
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MAE 552  Supervised Student Teaching, High School  
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MAE 699  Dissertation Research On Campus  
| T13  | 87014 | 0/ 10 | Lisa Berger |

Final: Tuesday, Dec. 15, 11:15am-1:45pm  
Final: Tuesday, Dec. 15, 2:15pm-5:00pm  
Final: Wednesday, Dec. 9, 5:30pm-8:00pm  
Final: Wednesday, Dec. 9, 8:30pm-11:00pm
# Undergraduate Courses

## MAP 101  Fundamentals of Arithmetic and Algebra

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<th>Instructor</th>
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## MAP 103  Proficiency Algebra

Note: Evening Exams: 8:45pm-10:15pm 9/24/20, 11/2/20.

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## MAT 119  Foundations for Precalculus

Students must also enroll concurrently in MAT123

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## MAT 122  Overview of Calculus, with Applications

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## MAT 123  Overview of Calculus, with Applications

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UGTA1
UGTA2
UGTA3
UGTA4
**MAT 125  Calculus A**

Note: Evening Exams: 8:45pm-10:15pm 9/21/20, 11/2/20.

**Final:** Wed. Dec. 9, 2:15pm-5:00pm

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### MAT 126  Calculus B

Note: Evening Exams: 8:45pm-10:15pm 9/23/20, 10/29/20.

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### MAT 127  Calculus C

Note: Evening Exams: 8:45pm-10:15pm 10/2, 11/4.

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### MAT 130  Trigonometry and Logarithms

Note: Fall 2020: Class only meets for the first 6 weeks of the semester. Students must enroll concurrently in MAT 125

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**MAT 131 Calculus I**  
Note: Evening Exams: 8:45pm-10:15pm 10/2, 10/31.  
**Final:** Wed. Dec. 9, 2:15pm-5:00pm

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**MAT 132 Calculus II**  
Note: Evening Exams: 8:45pm-10:15pm 9/23/20, 10/29/20.  
**Final:** Thursday, Dec. 10, 2:15pm-5:00pm

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**MAT 200 Logic, Language and Proof**

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grdr 3
### MAT 203  Calculus III with Applications

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<td>3/ 38</td>
<td>Tu 1:00pm- 1:53pm</td>
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<td>R04</td>
<td>88174</td>
<td>0/ 38</td>
<td>Th 8:30am- 9:23am</td>
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<td>83584</td>
<td>81/ 183</td>
<td>MW 5:30pm- 6:50pm</td>
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<td>Engineering 143</td>
<td>183</td>
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<td>83585</td>
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<td>Earth+Space 079</td>
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<tr>
<td>R22</td>
<td>86520</td>
<td>14/ 38</td>
<td>F 12:00pm-12:53pm</td>
<td></td>
<td>Physics P130</td>
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<td>87375</td>
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<tr>
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<td>87746</td>
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<td>Th 2:30pm- 3:23pm</td>
<td></td>
<td>Physics P112</td>
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### MAT 211  Introduction to Linear Algebra

Note: Not for credit in addition to AMS 210.

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<tr>
<th>LEC</th>
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<th>Harriman Hll 112</th>
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<td>LEC 4</td>
<td>88610</td>
<td>21/ 60</td>
<td>TuTh 4:00pm- 5:20pm</td>
<td>Andrew Hanlon</td>
<td>Harriman Hll 112</td>
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### MAT 250  Intro to Advanced Mathematics

Note: contact department at upd@math.stonybrook.edu for permission to register

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<th>LEC</th>
<th>Code</th>
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<th>TuTh 1:00pm- 2:20pm</th>
<th>Julia Viro</th>
<th>Chemistry 126</th>
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### MAT 303  Calculus IV with Applications

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<th>Dimitrios Ntalampekos</th>
<th>Engineering 143</th>
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<tr>
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<td>84438</td>
<td>26/ 38</td>
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### MAT 307  Multivariable Calc Linear Alg

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<th>MW 4:00pm- 5:20pm</th>
<th>Robert Hough</th>
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### MAT 310  Linear Algebra
**Final:** Wed. Dec. 16, 8:00am-10:45am

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<th>1+77/100</th>
<th>MW 8:30am-9:50am</th>
<th>Lowell Jones</th>
<th>Javits Lectr 101</th>
<th>103</th>
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<td>R01</td>
<td>84588</td>
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<td>Earth+Space 181</td>
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### MAT 311  Number Theory
**Note:** Offered as MAT 311 and MAT 521

**Final:** Wed. Dec. 9, 5:30pm-8:00pm

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<tr>
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<th>88612</th>
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### MAT 312  Applied Algebra
**Note:** Offered as MAT 312 and AMS 351

**Final:** Wed. Dec. 16, 11:15am-1:45pm

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<tr>
<th>LEC 01</th>
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<th>TuTh 11:30am-12:50pm</th>
<th>Eun Hye Lee</th>
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<tr>
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<td>Tu 1:00pm-1:53pm</td>
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<td>R02</td>
<td>83555</td>
<td>30/30</td>
<td>W 11:00am-11:53am</td>
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<td>R03</td>
<td>95415</td>
<td>30/30</td>
<td>Th 10:00am-10:53am</td>
<td>Humanities 3020</td>
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### MAT 313  Abstract Algebra
**Note:** Offered as MAT 313 and MAT 524

**Final:** Wed. Dec. 16, 11:15am-1:45pm

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<tr>
<th>LEC 01</th>
<th>80658</th>
<th>34/50</th>
<th>TuTh 11:30am-12:50pm</th>
<th>Mikhail Movshev</th>
<th>Mathematics P131</th>
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<tbody>
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### MAT 319  Foundations of Analysis

**Final:** Thursday, Dec. 17, 8:00am-10:45am

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<tr>
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<th>81638</th>
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<td>MW 11:00am-11:53am</td>
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### MAT 320  Introduction to Analysis

Students should enroll in MAT 319 R 01. After 6 weeks, student will move into MAT 320

**Final:** Thursday, Dec. 17, 8:00am-10:45am

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<tr>
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<th>Jingrui Cheng</th>
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### MAT 324  Real Analysis
**Note:** Offered as MAT 324 and MAT 522

**Final:** Thursday, Dec. 17, 8:00am-10:45am

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<th>19/34</th>
<th>TuTh 10:00am-11:20am</th>
<th>David Ebin</th>
<th>Earth+Space 181</th>
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### MAT 331  Computer-Assisted Mathematical Problem Solving

**Final:** Wed. Dec. 16, 11:15am-1:45pm

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<td>MAT 364</td>
<td>Topology and Geometry</td>
<td>Offered as</td>
<td>Final:</td>
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<td></td>
<td>MAT 364 and MAT 529</td>
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<tr>
<td>MAT 373</td>
<td>Analysis of Algorithms</td>
<td>Note: Offered as CSE 373 and MAT 373. Students satisfying prereqs by transfer must provide proof by the start of the semester. Course has an auto waitlist.</td>
<td>Final:</td>
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<tr>
<td>MAT 401</td>
<td>Seminar in Mathematics: Birth of the Riemann curvature tensor.</td>
<td>Please note: Students need to have a B or better in MAT320 and MAT203/MAT307/AMS261, with MAT322 or MAT362 highly recommended. Please email: <a href="mailto:upd@math.stonybrook.edu">upd@math.stonybrook.edu</a> for permission</td>
<td>Final:</td>
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MAT 475  Undergrad Teaching Practicum
Meets with MAT 598

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<th>Location</th>
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<tbody>
<tr>
<td>TuTh 8:30am-9:50am</td>
<td>Alexander Kirillov</td>
<td>Mathematics 4130</td>
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Final: Wed. Dec. 9, 11:15am-1:45pm

MAT 487  Indep Study in Special Topics

MAT 495  Honors Thesis

**Graduate Courses**

MAT 511  Fundamental Concepts of Math

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<th>Instructor</th>
<th>Location</th>
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<tr>
<td>LEC 01</td>
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<td>TuTh 5:30pm-6:50pm</td>
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<td>Mathematics 4130</td>
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Final: Wed. Dec. 9, 8:30pm-11:00pm

MAT 515  Geometry for Teachers

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<th>Instructor</th>
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<tr>
<td>LEC 01</td>
<td>81542</td>
<td>MW 5:30pm-6:50pm</td>
<td>Scott Sutherland</td>
<td>Mathematics 4130</td>
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Final: Monday, Dec. 14, 5:30pm-8:00pm

MAT 516  Probab + Statist for Teachers

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<td>LEC 01</td>
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<td>MW 4:00pm-5:20pm</td>
<td>C. Denson Hill</td>
<td>Mathematics 4130</td>
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Final: Wednesday, Dec. 9, 5:30pm-8:00pm

MAT 521  Introduction to Number Theory
Note: Offered as MAT 311 and MAT 521

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<th>Instructor</th>
<th>Location</th>
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<tr>
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<td>MW 2:30pm-3:50pm</td>
<td>Robert Hough</td>
<td>Physics P116</td>
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Final: Thursday, Dec. 1, 8:00am-10:45am

MAT 522  Introduction to Measure Theory
Note: Offered as MAT 324 and MAT 522

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<th>Instructor</th>
<th>Location</th>
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<tr>
<td>LEC 01</td>
<td>88861</td>
<td>TuTh 10:00am-11:20am</td>
<td>David Ebin</td>
<td>Earth+Space 181</td>
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Final: Thursday, Dec. 17, 8:00am-10:45am

MAT 524  Abstract Algebra I
Note: Offered as MAT 313 and MAT 524

<table>
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<th>Section Capacity</th>
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<th>Instructor</th>
<th>Location</th>
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<tr>
<td>LEC 01</td>
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<td>TuTh 11:30am-12:50pm</td>
<td>Mikhail Movshev</td>
<td>Mathematics P131</td>
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Final: Wednesday, Dec. 16, 2:15pm-5:00pm

MAT 529  Basic Topology and Geometry
Offered as MAT 364 and MAT 529

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<th>Instructor</th>
<th>Location</th>
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<tr>
<td>LEC 01</td>
<td>88862</td>
<td>MWF 10:00am-10:53am</td>
<td>Benjamin Dozier</td>
<td>Lgt Engr Lab 154</td>
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Final: Wednesday, Dec. 16, 2:15pm-5:00pm

MAT 530  Topology, Geometry I

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<td>LEC 01</td>
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<td>MW 10:00am-11:20am</td>
<td>Lowell Jones</td>
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Final: Wednesday, Dec. 16, 2:15pm-5:00pm
### MAT 532  Real Analysis I

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<tr>
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<th>87319</th>
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<th>TuTh 1:00pm-2:20pm</th>
<th>Raanan Schul</th>
<th>Physics P123</th>
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**Final:** Thursday, Dec. 17, 11:15am-1:45pm

### MAT 534  Algebra I

<table>
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<tr>
<th>LEC 01</th>
<th>80670</th>
<th>2/30</th>
<th>TuTh 10:00am-11:20am</th>
<th>Mikhail Movshev</th>
<th>Earth+Space 183</th>
<th>34</th>
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**Final:** Thursday, Dec. 17, 8:00am-10:45am

### MAT 537  Several Complex Variables

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<th>Eric Bedford</th>
<th>Physics P127</th>
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### MAT 540  Advanced Topology, Geometry I

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<th>LEC 01</th>
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<th>MW 10:00am-11:20am</th>
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<th>Physics P116</th>
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**Final:** Wed. Dec. 16, 2:15pm-5:00pm

### MAT 541  Algebraic Topology

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<th>LEC 01</th>
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<th>Catherine Cannizzo</th>
<th>Mathematics 4130</th>
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**Final:** Wed. Dec. 16, 11:15am-1:45pm

### MAT 544  Commutative Algebra

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<th>TuTh 10:00am-11:20am</th>
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### MAT 545  Complex Geometry

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<th>LEC 02</th>
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<th>TuTh 1:00pm-2:20pm</th>
<th>Mark De Cataldo</th>
<th>Mathematics 4130</th>
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### MAT 551  Introduction to PDE

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<th>LEC 01</th>
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<th>MW 2:30pm-3:50pm</th>
<th>Xiuxiong Chen</th>
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### MAT 562  Symplectic Geometry

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### MAT 568  Differential Geometry

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<th>Blaine Lawson</th>
<th>Earth+Space 181</th>
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### MAT 598  Teaching Practicum

Meets with MAT 475

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<th>Alexander Kirillov</th>
<th>Mathematics 4130</th>
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### MAT 599  M.A. Research

*Note: S/U grading only.*
MAT 638  Topics in Real Analysis: Weil-Petersson Curves, Traveling Salesman Theorems, and Minimal Surfaces
LEC 01  88178  0/ 25  TuTh 11:30am-12:50pm  Christopher Bishop  Physics P122 25

MAT 644  Topics in Differential Geometry: Curvature of Four-Manifolds
LEC 01  86525  0/ 30  TuTh 1:00pm- 2:20pm  Claude LeBrun  Earth+Space 079 50

MAT 656  Topics in Dynamics: Group Theory and Dynamical Systems
LEC 01  95566  0/ 25  MW 10:00am-11:20am  Dzmitry Dudko  Physics P129 29

MAT 670  Topics in Complex Analysis: Variation of Bergman Spaces
LEC 01  95567  0/ 25  MW 11:30am-12:50pm  Dror Varolin  Physics P123 25

MAT 682  Topics in Differential Geometry: Teichmueller Theory and Character Varieties
LEC 01  87321  1/ 30  TuTh 10:00am-11:20am  Leon Takhtajan  Harriman Hll 112 62

MAT 690  Topics in Algebraic Geometry: Geometry of Syzygies of Algebraic Varieties
LEC 01  88607  0/ 25  TuTh 2:30pm- 3:50pm  Robert Lazarsfeld  Physics P122 25

MAT 696  Mathematics Seminar
 S01  80676  0/ 50  F 12:30pm- 2:30pm  Dennis Sullivan  Mathematics 4130 35
 S02  85469  0/ 20  Th 2:30pm- 3:30pm
 S03  85470  0/ 20  F 4:00pm- 6:20pm
 S04  85471  0/ 20  W 4:00pm- 5:20pm
 S06  85472  0/ 20  M 1:00pm- 2:20pm

MAT 697  Mathematics Colloquium
 S01  81543  0/ 20  Th 4:00pm- 6:00pm  Mathematics P131 50

MAT 698  Independent Study

MAT 699  Dissertation Research on-Campus

MAT 700  Dissertation off-Campus Domestic

MAT 701  Dissertation off-Campus International