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DEPARTMENT: MATHEMATICS

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| COURSE<br>CURRIC NUM                   | TITLE                                                              | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P            | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C M<br>T P R | W<br>R<br>G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|----------------------------------------|--------------------------------------------------------------------|------------|----------|--------------------|--------------------------------------|-----------------|----------------|-------------------------|----------------------------|-----------------------|-------------|-------------------|------------------|------------------|
| MATH 403                               | INTRO MDRN ALGEBRA<br>Introduction to Modern Algebra               | WIN/2006 - | AUT/9999 | 3.0                | .                                    | .               | .              | .                       | .                          | Y                     | .           | .                 | .                | .                |
|                                        |                                                                    |            |          |                    | LAST UPDT: 6/28/10                   |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:CHANGE COURSE DESCRIPTION      |                                                                    |            |          |                    |                                      |                 |                |                         |                            |                       |             |                   |                  |                  |
| MATH 404                               | INTRO MDRN ALGEBRA<br>Introduction to Modern Algebra               | WIN/2006 - | AUT/9999 | 3.0                | .                                    | .               | .              | .                       | .                          | Y                     | .           | .                 | .                | .                |
|                                        |                                                                    |            |          |                    | LAST UPDT: 6/28/10                   |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:CHANGE COURSE DESCRIPTION      |                                                                    |            |          |                    |                                      |                 |                |                         |                            |                       |             |                   |                  |                  |
| MATH 405                               | METAMATHEMATICS<br>LOGIC AND METAMATHEMATICS                       | AUT/1984 - | AUT/9999 | 3.0                | .                                    | .               | .              | .                       | .                          | Y                     | .           | .                 | .                | .                |
|                                        |                                                                    |            |          |                    | LAST UPDT: 8/29/06                   |                 |                |                         |                            |                       |             |                   |                  |                  |
| MATH 406                               | ELEM SET THEORY<br>ELEMENTARY SET THEORY                           | AUT/1984 - | AUT/9999 | 3.0                | .                                    | .               | .              | .                       | .                          | Y                     | .           | .                 | .                | .                |
|                                        |                                                                    |            |          |                    | LAST UPDT: 8/29/06 APPROVED:12/15/83 |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:WAS MATH 400                   |                                                                    |            |          |                    |                                      |                 |                |                         |                            |                       |             |                   |                  |                  |
| MATH 407                               | LINEAR OPTIMIZATION<br>Linear Optimization                         | AUT/2014 - | AUT/9999 | 3.0                | .                                    | .               | .              | .                       | .                          | Y                     | .           | .                 | .                | .                |
|                                        |                                                                    |            |          |                    | LAST UPDT: 7/29/14                   |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:14-16 PREQ CHG                 |                                                                    |            |          |                    |                                      |                 |                |                         |                            |                       |             |                   |                  |                  |
| MATH 408                               | NONLINEAR OPTIMZTN<br>Nonlinear Optimization                       | WIN/2017 - | AUT/9999 | 3.0                | .                                    | .               | .              | .                       | .                          | Y                     | .           | .                 | .                | .                |
|                                        |                                                                    |            |          |                    | LAST UPDT: 3/09/16 APPROVED: 9/01/86 |                 |                |                         |                            |                       |             |                   |                  |                  |
| MATH 409                               | DISCRETE OPTIMIZATN<br>Discrete Optimization                       | WIN/2017 - | AUT/9999 | 3.0                | .                                    | .               | .              | .                       | .                          | Y                     | .           | .                 | .                | .                |
|                                        |                                                                    |            |          |                    | LAST UPDT: 1/05/17 APPROVED:10/01/89 |                 |                |                         |                            |                       |             |                   |                  |                  |
| MATH 411                               | INTRO MDRN ALG-TCHR<br>Introduction to Modern Algebra for Teachers | AUT/2011 - | AUT/9999 | 3.0                | .                                    | .               | .              | .                       | .                          | Y                     | .           | .                 | .                | .                |
|                                        |                                                                    |            |          |                    | LAST UPDT: 3/30/11 APPROVED:12/06/93 |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:EMAIL PREQ CHG                 |                                                                    |            |          |                    |                                      |                 |                |                         |                            |                       |             |                   |                  |                  |
| MATH 412                               | INTRO MDRN ALG-TCHR<br>Introduction to Modern Algebra for Teachers | WIN/2004 - | AUT/9999 | 3.0                | .                                    | .               | .              | .                       | .                          | Y                     | .           | .                 | .                | .                |
|                                        |                                                                    |            |          |                    | LAST UPDT: 6/28/10 APPROVED:12/06/93 |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:EMAIL PREREQ-ENFORCE CANCL REG |                                                                    |            |          |                    |                                      |                 |                |                         |                            |                       |             |                   |                  |                  |



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| COURSE<br>CURRIC NUM                   | TITLE                                                              | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER<br>-ALL<br>MAX | D<br>U<br>P | GRD<br>SYS | D<br>E<br>D<br>HYPH | S<br>H<br>U<br>M | F<br>N<br>E<br>R | V<br>L<br>P<br>A | E<br>L<br>&<br>S | E<br>N<br>C<br>W | W<br>R<br>T<br>P<br>R<br>G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|----------------------------------------|--------------------------------------------------------------------|------------|----------|--------------------|---------------------|-------------|------------|---------------------|------------------|------------------|------------------|------------------|------------------|----------------------------|-------------------|------------------|------------------|
| MATH 442                               | DIFFERENTIAL GEOMETR<br>Differential Geometry                      | WIN/2019 - | AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                | .                | .                | Y                | .                | .                          | .                 | .                | .                |
| LAST UPDT: 5/18/18                     |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| MATH 443                               | DIFFERENTIAL GEOMETR<br>Differential Geometry                      | WIN/2015 - | AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                | .                | .                | Y                | .                | .                          | .                 | .                | .                |
| LAST UPDT: 1/29/15                     |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| COMMENT:CHG TITLES, DESC               |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| MATH 444                               | GEOMTRY FOR TEACHRS<br>Geometry for Teachers                       | SPR/2017 - | AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                | .                | .                | Y                | .                | .                          | .                 | .                | .                |
| LAST UPDT: 2/08/17                     |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| MATH 445                               | GEOMTRY FOR TEACHRS<br>Geometry for Teachers                       | WIN/2004 - | AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                | .                | .                | Y                | .                | .                          | .                 | .                | .                |
| LAST UPDT: 6/28/10                     |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| COMMENT:EMAIL PREREQ-ENFORCE CANCL REG |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| MATH 461                               | COMBINATORIAL THEOR<br>Combinatorial Theory                        | AUT/2016 - | AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                | .                | .                | Y                | .                | .                          | .                 | .                | .                |
| LAST UPDT:11/19/15 APPROVED: 5/01/82   |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| MATH 462                               | COMBINATORIAL THEOR<br>Combinatorial Theory                        | WIN/2017 - | AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                | .                | .                | Y                | .                | .                          | .                 | .                | .                |
| LAST UPDT: 3/10/16 APPROVED: 5/01/82   |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| MATH 464                               | NUMERICAL ANLYS I<br>Numerical Analysis I                          | AUT/2008 - | AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                | .                | .                | Y                | .                | .                          | .                 | .                | .                |
| LAST UPDT: 6/28/10 APPROVED: 4/01/84   |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| COMMENT:PREQ CHG PER 08-10 UPDATE      |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| MATH 465                               | NUMERICAL ANLYS II<br>Numerical Analysis II                        | WIN/2017 - | AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                | .                | .                | Y                | .                | .                          | .                 | .                | .                |
| LAST UPDT: 1/05/17 APPROVED: 4/01/84   |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| MATH 466                               | NUMERICAL ANLYS III<br>Numerical Analysis III                      | AUT/2008 - | AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                | .                | .                | Y                | .                | .                          | .                 | .                | .                |
| LAST UPDT: 6/28/10 APPROVED: 4/01/84   |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| COMMENT:CHG PREQ PER 08-10 UPDATE      |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| MATH 480                               | ADV TOPICS IN MATH<br>Advanced Topics in Undergraduate Mathematics | SPR/2010 - | AUT/9999 | 3.0                | 12.0                | .           | .          | .                   | .                | .                | .                | .                | .                | .                          | .                 | .                | .                |
| LAST UPDT:10/16/09 APPROVED:10/25/06   |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |
| COMMENT:CHG TITLES, DESC               |                                                                    |            |          |                    |                     |             |            |                     |                  |                  |                  |                  |                  |                            |                   |                  |                  |





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|--------------------------------------|-------------------------------------------------------|-----------|------------|--------------------|---------------------|-------------|------------|---------------------|-------------------------------------------|--------------------------------------|------------------------------------------------|-------------|-------------------|------------------|------------------|
| MATH 516                             | NUMERICAL OPTIMIZTN<br>Numerical Optimization         | WIN/2016  | - AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           | MATH 516          | AMATH 516        | .                |
| LAST UPDT:10/15/15 APPROVED: 6/27/85 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 517                             | OPTIMIZTN UNCERTNTY<br>Optimization Under Uncertainty | AUT/1985  | - AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           | AMATH 517         | AMATH 517        | .                |
| LAST UPDT: 9/06/94 APPROVED: 6/01/85 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 518                             | OPTIMAL CONTROL<br>Theory of Optimal Control          | AUT/2016  | - AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           | MATH 518          | AMATH 518        | .                |
| LAST UPDT:10/22/15 APPROVED: 6/27/85 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 521                             | ADV PROBABILITY<br>Advanced Probability               | AUT/1980  | - AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           | STAT 521          | STAT 521         | .                |
| LAST UPDT: 3/22/16 APPROVED:10/01/79 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 522                             | ADV PROBABILITY<br>Advanced Probability               | WIN/1980  | - AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           | STAT 522          | STAT 522         | .                |
| LAST UPDT: 3/22/16 APPROVED:10/01/79 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 523                             | ADV PROBABILITY<br>Advanced Probability               | SPR/1980  | - AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           | STAT 523          | STAT 523         | .                |
| LAST UPDT: 3/22/16 APPROVED:10/01/79 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 524                             | REAL ANALYSIS<br>Real Analysis                        | AUT/1998  | - AUT/9999 | 5.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           |                   |                  | .                |
| LAST UPDT: 2/27/98 APPROVED:11/06/92 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 525                             | REAL ANALYSIS<br>Real Analysis                        | AUT/1998  | - AUT/9999 | 5.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           |                   |                  | .                |
| LAST UPDT: 2/27/98 APPROVED:11/06/92 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 526                             | REAL ANALYSIS<br>Real Analysis                        | AUT/1998  | - AUT/9999 | 5.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           |                   |                  | .                |
| LAST UPDT: 2/27/98 APPROVED:11/06/92 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 527                             | FUNCTIONAL ANALYSIS<br>Functional Analysis            | WIN/1992  | - AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           |                   |                  | .                |
| LAST UPDT: 8/04/06 APPROVED: 7/01/91 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| COMMENT:WAS MATH 547                 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| MATH 528                             | FUNCTIONAL ANALYSIS<br>Functional Analysis            | WIN/1992  | - AUT/9999 | 3.0                | .                   | .           | .          | .                   | .                                         | .                                    | .                                              | .           |                   |                  | .                |
| LAST UPDT:12/24/92 APPROVED: 7/01/91 |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |
| COMMENT:PREVIOUSLY MATH 548          |                                                       |           |            |                    |                     |             |            |                     |                                           |                                      |                                                |             |                   |                  |                  |

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| COURSE<br>CURRIC NUM        | TITLE                                                        | EFFECTIVE           | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P            | GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C Q<br>M S N<br>T P R G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|-----------------------------|--------------------------------------------------------------|---------------------|----------|--------------------|--------------------------------------|------------|----------------|-------------------------|----------------------------|----------------------------------|-------------------|------------------|------------------|
| MATH 529                    | FUNCTIONAL ANALYSIS<br>Functional Analysis                   | WIN/1992 - AUT/9999 |          | 3.0                | .                                    | .          | .              | .                       | .                          | .                                | .                 | .                | .                |
| COMMENT:PREVIOUSLY MATH 549 |                                                              |                     |          |                    | LAST UPDT:12/24/92 APPROVED: 7/01/91 |            |                |                         |                            |                                  |                   |                  |                  |
| MATH 530                    | SEMINAR IN ANALYSIS<br>Seminar in Analysis                   | WIN/1991 - AUT/9999 |          | 2.0-05.0           | 12.0 Y                               | CR/NC      | .              | .                       | .                          | .                                | .                 | .                | .                |
| COMMENT:RETRO MAX CREDITS   |                                                              |                     |          |                    | LAST UPDT: 4/25/13 APPROVED:12/10/90 |            |                |                         |                            |                                  |                   |                  |                  |
| MATH 534                    | COMPLEX ANALYSIS<br>Complex Analysis                         | AUT/1998 - AUT/9999 |          | 5.0                | .                                    | .          | .              | .                       | .                          | .                                | .                 | .                | .                |
|                             |                                                              |                     |          |                    | LAST UPDT: 2/27/98 APPROVED:11/06/92 |            |                |                         |                            |                                  |                   |                  |                  |
| MATH 535                    | COMPLEX ANALYSIS<br>Complex Analysis                         | AUT/1998 - AUT/9999 |          | 5.0                | .                                    | .          | .              | .                       | .                          | .                                | .                 | .                | .                |
|                             |                                                              |                     |          |                    | LAST UPDT: 2/27/98 APPROVED:11/06/92 |            |                |                         |                            |                                  |                   |                  |                  |
| MATH 536                    | COMPLEX ANALYSIS<br>Complex Analysis                         | AUT/1998 - AUT/9999 |          | 5.0                | .                                    | .          | .              | .                       | .                          | .                                | .                 | .                | .                |
|                             |                                                              |                     |          |                    | LAST UPDT: 2/27/98 APPROVED:11/06/92 |            |                |                         |                            |                                  |                   |                  |                  |
| MATH 537                    | SEVERAL COMPLEX VAR<br>Several Complex Variables             | AUT/1994 - AUT/9999 |          | 3.0                | .                                    | .          | .              | .                       | .                          | .                                | .                 | .                | .                |
| COMMENT:REPLACES MATH 554   |                                                              |                     |          |                    | LAST UPDT: 7/29/14 APPROVED: 4/01/84 |            |                |                         |                            |                                  |                   |                  |                  |
| MATH 538                    | SEVERAL COMPLEX VAR<br>Several Complex Variables             | AUT/1994 - AUT/9999 |          | 3.0                | .                                    | .          | .              | .                       | .                          | .                                | .                 | .                | .                |
| COMMENT:REPLACES MATH 555   |                                                              |                     |          |                    | LAST UPDT: 7/29/14 APPROVED: 4/01/84 |            |                |                         |                            |                                  |                   |                  |                  |
| MATH 539                    | SEVERAL COMPLEX VAR<br>Several Complex Variables             | AUT/1994 - AUT/9999 |          | 3.0                | .                                    | .          | .              | .                       | .                          | .                                | .                 | .                | .                |
| COMMENT:REPLACES MATH 556   |                                                              |                     |          |                    | LAST UPDT: 7/29/14 APPROVED: 4/01/84 |            |                |                         |                            |                                  |                   |                  |                  |
| MATH 541                    | SPEC TPCS APPL MATH<br>Special Topics in Applied Mathematics | SPR/1985 - AUT/9999 |          | 2.0-03.0           | 15.0 Y                               | .          | .              | .                       | .                          | .                                | .                 | .                | .                |
|                             |                                                              |                     |          |                    | LAST UPDT: 9/17/14                   |            |                |                         |                            |                                  |                   |                  |                  |
| MATH 542                    | SPEC TPCS APPL MATH<br>Special Topics in Applied Mathematics | SPR/1985 - AUT/9999 |          | 2.0-03.0           | 15.0 Y                               | .          | .              | .                       | .                          | .                                | .                 | .                | .                |
|                             |                                                              |                     |          |                    | LAST UPDT: 9/17/14                   |            |                |                         |                            |                                  |                   |                  |                  |

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|----------------------------------------|--------------------------------------------------------------|---------------------|----------|--------------------|--------------------------------------|-----------------|----------------|-------------------------|----------------------------|--------------------------|----------------------------|-------------------|------------------|------------------|
| MATH 543                               | SPEC TPCS APPL MATH<br>Special Topics in Applied Mathematics | SPR/1985 - AUT/9999 |          | 2.0-03.0           | 15.0 Y                               | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT: 9/17/14                   |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 544                               | TOP/GEOM MANIFOLDS<br>Topology and Geometry of Manifolds     | SPR/1993 - AUT/9999 |          | 5.0                | .                                    | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT:12/24/92 APPROVED:11/06/92 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 545                               | DIFFERENTIAL GEOM<br>Topology and Geometry of Manifolds      | SPR/1993 - AUT/9999 |          | 5.0                | .                                    | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT:11/19/92 APPROVED:11/06/92 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 546                               | TOP/GEOM MANIFOLDS<br>Topology and Geometry of Manifolds     | SPR/1993 - AUT/9999 |          | 5.0                | .                                    | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT:11/19/92 APPROVED:11/06/92 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 547                               | GEOMETRIC STRUCTURE<br>Geometric Structures                  | WIN/1992 - AUT/9999 |          | 3.0                | 9.0 Y                                | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT:10/26/16 APPROVED: 7/01/91 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 548                               | GEOMETRIC STRUCTURE<br>Geometric Structures                  | WIN/1992 - AUT/9999 |          | 3.0                | 9.0 Y                                | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT:12/24/92 APPROVED: 7/01/91 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 549                               | GEOMETRIC STRUCTURE<br>Geometric Structures                  | WIN/1992 - AUT/9999 |          | 3.0                | 9.0 Y                                | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT:12/24/92 APPROVED: 7/01/91 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 550                               | SEMINAR IN GEOM<br>Seminar in Geometry                       | WIN/1991 - AUT/9999 |          | 2.0-05.0           | 12.0 Y CR/NC                         | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT: 4/25/13 APPROVED:12/10/90 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| COMMENT:RETRO MAX CREDITS              |                                                              |                     |          |                    |                                      |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 554                               | LINEAR ANALYSIS<br>Linear Analysis                           | AUT/1996 - AUT/9999 |          | 5.0                | .                                    | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT: 2/27/98 APPROVED: 9/19/94 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| COMMENT:CONVERSION OF TEMP;SEE CR 281  |                                                              |                     |          |                    |                                      |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 555                               | LINEAR ANALYSIS<br>Linear Analysis                           | AUT/1996 - AUT/9999 |          | 5.0                | .                                    | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                                        |                                                              |                     |          |                    | LAST UPDT: 2/27/98 APPROVED: 9/19/94 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| COMMENT:CONVERSION OF TEMP; SEE CR 281 |                                                              |                     |          |                    |                                      |                 |                |                         |                            |                          |                            |                   |                  |                  |

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DEPARTMENT: MATHEMATICS

| COURSE<br>CURRIC NUM                  | TITLE                                                                 | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P            | GRD<br>SYS | D<br>E<br>D HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C<br>M S<br>T P | W<br>R<br>Q T<br>P R G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|---------------------------------------|-----------------------------------------------------------------------|------------|----------|--------------------|--------------------------------------|------------|------------------|-------------------------|----------------------------|--------------------------|------------------------|-------------------|------------------|------------------|
| MATH 556                              | LINEAR ANALYSIS<br>Linear Analysis                                    | AUT/1996 - | AUT/9999 | 5.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT: 2/27/98 APPROVED: 9/19/94 |            |                  |                         |                            |                          |                        |                   |                  |                  |
| COMMENT:CONVERSION OF TEMP;SEE CR 281 |                                                                       |            |          |                    |                                      |            |                  |                         |                            |                          |                        |                   |                  |                  |
| MATH 557                              | INTRO PARTL DIFF EQ<br>Introduction to Partial Differential Equations | AUT/2013 - | AUT/9999 | 3.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT: 8/21/13 APPROVED: 4/01/87 |            |                  |                         |                            |                          |                        |                   |                  |                  |
| COMMENT:CHG DESC                      |                                                                       |            |          |                    |                                      |            |                  |                         |                            |                          |                        |                   |                  |                  |
| MATH 558                              | INTRO PARTL DIFF EQ<br>Introduction to Partial Differential Equations | AUT/2013 - | AUT/9999 | 3.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT: 8/21/13 APPROVED: 4/01/87 |            |                  |                         |                            |                          |                        |                   |                  |                  |
| COMMENT:CHG DESC                      |                                                                       |            |          |                    |                                      |            |                  |                         |                            |                          |                        |                   |                  |                  |
| MATH 559                              | INTRO PARTL DIFF EQ<br>Introduction to Partial Differential Equations | AUT/2013 - | AUT/9999 | 3.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT: 8/21/13 APPROVED: 4/01/87 |            |                  |                         |                            |                          |                        |                   |                  |                  |
| COMMENT:CHG DESC                      |                                                                       |            |          |                    |                                      |            |                  |                         |                            |                          |                        |                   |                  |                  |
| MATH 561                              | COMBINATORICS FNDTNS<br>Foundations of Combinatorics                  | WIN/2017 - | AUT/9999 | 3.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT:12/22/16 APPROVED:10/20/15 |            |                  |                         |                            |                          |                        |                   |                  |                  |
| MATH 562                              | COMBINATORICS FNDTNS<br>Foundations of Combinatorics                  | AUT/2016 - | AUT/9999 | 3.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT:10/21/15 APPROVED:10/20/15 |            |                  |                         |                            |                          |                        |                   |                  |                  |
| MATH 563                              | COMBINATORICS FNDTNS<br>Foundations of Combinatorics                  | AUT/2016 - | AUT/9999 | 3.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT:10/21/15 APPROVED:10/20/15 |            |                  |                         |                            |                          |                        |                   |                  |                  |
| MATH 564                              | ALGEBRAIC TOPOLOGY<br>Algebraic Topology                              | AUT/1968 - | AUT/9999 | 3.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT:11/18/92                   |            |                  |                         |                            |                          |                        |                   |                  |                  |
| MATH 565                              | ALGEBRAIC TOPOLOGY<br>Algebraic Topology                              | WIN/1972 - | AUT/9999 | 3.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT: 0/00/00                   |            |                  |                         |                            |                          |                        |                   |                  |                  |
| MATH 566                              | ALGEBRAIC TOPOLOGY<br>Algebraic Topology                              | SPR/1972 - | AUT/9999 | 3.0                | .                                    | .          | .                | .                       | .                          | .                        | .                      | .                 | .                | .                |
|                                       |                                                                       |            |          |                    | LAST UPDT: 0/00/00                   |            |                  |                         |                            |                          |                        |                   |                  |                  |



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| COURSE<br>CURRIC NUM                | TITLE                                                                             | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P | D<br>GRD<br>SYS | D<br>E<br>HYPH    | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C<br>M S<br>T P | W<br>R<br>Q<br>T<br>N<br>G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|-------------------------------------|-----------------------------------------------------------------------------------|------------|----------|--------------------|---------------------------|-----------------|-------------------|-------------------------|----------------------------|--------------------------|----------------------------|-------------------|------------------|------------------|
| MATH 580                            | CURRENT PROB SEM<br>Current Topics in Mathematics                                 | AUT/2003 - | AUT/9999 | 2.0                | 12.0 .                    | .               | .                 | . . .                   | . . . . .                  | .                        | .                          |                   |                  | .                |
|                                     |                                                                                   |            |          |                    | LAST UPDT: 7/14/03        |                 | APPROVED: 6/24/02 |                         |                            |                          |                            |                   |                  |                  |
| COMMENT:CHG TITLE                   |                                                                                   |            |          |                    |                           |                 |                   |                         |                            |                          |                            |                   |                  |                  |
| MATH 581                            | SPECIAL TOPICS<br>Special Topics in Mathematics                                   | AUT/2001 - | AUT/9999 | 1.0-05.0           | 36.0 Y                    | .               | .                 | . . .                   | . . . . .                  | .                        | .                          |                   |                  | .                |
|                                     |                                                                                   |            |          |                    | LAST UPDT: 1/24/02        |                 | APPROVED: 6/27/01 |                         |                            |                          |                            |                   |                  |                  |
| MATH 582                            | SPECIAL TOPICS<br>Special Topics in Mathematics                                   | AUT/2001 - | AUT/9999 | 1.0-05.0           | 36.0 Y                    | .               | .                 | . . .                   | . . . . .                  | .                        | .                          |                   |                  | .                |
|                                     |                                                                                   |            |          |                    | LAST UPDT: 1/24/02        |                 | APPROVED: 6/27/01 |                         |                            |                          |                            |                   |                  |                  |
| MATH 583                            | SPECIAL TOPICS<br>Special Topics in Mathematics                                   | AUT/2001 - | AUT/9999 | 1.0-05.0           | 36.0 Y                    | .               | .                 | . . .                   | . . . . .                  | .                        | .                          |                   |                  | .                |
|                                     |                                                                                   |            |          |                    | LAST UPDT: 1/24/02        |                 | APPROVED: 6/27/01 |                         |                            |                          |                            |                   |                  |                  |
| MATH 584                            | APPL LINEAR ALGEBRA<br>Applied Linear Algebra and Introductory Numerical Analysis | AUT/2013 - | AUT/9999 | 5.0                | .                         | .               | .                 | . . .                   | . . . . .                  | .                        | .                          | AMATH 584         | AMATH 584        | .                |
|                                     |                                                                                   |            |          |                    | LAST UPDT: 3/21/16        |                 | APPROVED: 6/07/79 |                         |                            |                          |                            |                   |                  |                  |
| COMMENT:EMAIL PREQ CHG              |                                                                                   |            |          |                    |                           |                 |                   |                         |                            |                          |                            |                   |                  |                  |
| MATH 585                            | BOUNDARY VALUE PROBS<br>Numerical Analysis of Boundary Value Problems             | AUT/2013 - | AUT/9999 | 5.0                | .                         | .               | .                 | . . .                   | . . . . .                  | .                        | .                          | AMATH 585         | AMATH 585        | .                |
|                                     |                                                                                   |            |          |                    | LAST UPDT: 3/21/16        |                 | APPROVED: 6/07/79 |                         |                            |                          |                            |                   |                  |                  |
| COMMENT:EMAIL PREQ CHG              |                                                                                   |            |          |                    |                           |                 |                   |                         |                            |                          |                            |                   |                  |                  |
| MATH 586                            | TIME DEPNDT PROBS<br>Numerical Analysis of Time Dependent Problems                | SPR/2014 - | AUT/9999 | 5.0                | .                         | .               | .                 | . . .                   | . . . . .                  | .                        | .                          | AMATH 586         | ATM S 581        | .                |
|                                     |                                                                                   |            |          |                    | LAST UPDT: 3/21/16        |                 | APPROVED: 6/07/79 |                         |                            |                          |                            |                   |                  |                  |
| COMMENT:EMAIL PREQ CHG              |                                                                                   |            |          |                    |                           |                 |                   |                         |                            |                          |                            |                   |                  |                  |
| MATH 590                            | SMNR PROBABILITY<br>Seminar in Probability                                        | WIN/1991 - | AUT/9999 | 2.0-05.0           | 12.0 Y                    | CR/NC           | .                 | . . .                   | . . . . .                  | .                        | .                          |                   |                  | .                |
|                                     |                                                                                   |            |          |                    | LAST UPDT: 4/25/13        |                 | APPROVED:12/10/90 |                         |                            |                          |                            |                   |                  |                  |
| COMMENT:RETRO MAX CREDITS           |                                                                                   |            |          |                    |                           |                 |                   |                         |                            |                          |                            |                   |                  |                  |
| MATH 591                            | SPEC TOPCS IN PROB<br>SPECIAL TOPICS IN PROBABILITY                               | AUT/1998 - | AUT/9999 | 2.0-03.0           | 15.0 Y                    | .               | .                 | . . .                   | . . . . .                  | .                        | .                          |                   |                  | .                |
|                                     |                                                                                   |            |          |                    | LAST UPDT: 8/29/06        |                 | DROPPED: 6/24/02  |                         |                            |                          |                            |                   |                  |                  |
| COMMENT:CHG DESC; DROPPED, ARCHIVED |                                                                                   |            |          |                    |                           |                 |                   |                         |                            |                          |                            |                   |                  |                  |

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| COURSE<br>CURRIC NUM | TITLE                                                       | EFFECTIVE           | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P            | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C<br>M S<br>T P | W<br>R<br>Q<br>T<br>N<br>G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|----------------------|-------------------------------------------------------------|---------------------|----------|--------------------|--------------------------------------|-----------------|----------------|-------------------------|----------------------------|--------------------------|----------------------------|-------------------|------------------|------------------|
| MATH 594             | SPCL TPCS NUM ANLYS<br>Special Topics in Numerical Analysis | AUT/1994 - AUT/9999 | 2.0-03.0 | 15.0               | Y                                    | .               | .              | .                       | .                          | .                        | .                          | MATH 594          | AMATH 594        | .                |
|                      |                                                             |                     |          |                    | LAST UPDT: 6/27/14 APPROVED:11/01/84 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                             |                     |          |                    | COMMENT:REPLACES MATH 557            |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 595             | SPCL TPCS NUM ANLYS<br>Special Topics in Numerical Analysis | AUT/1994 - AUT/9999 | 2.0-03.0 | 15.0               | Y                                    | .               | .              | .                       | .                          | .                        | .                          | MATH 595          | AMATH 595        | .                |
|                      |                                                             |                     |          |                    | LAST UPDT: 6/27/14 APPROVED:11/01/84 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                             |                     |          |                    | COMMENT:REPLACES MATH 558            |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 596             | SPEC TPCS NUM ANLYS<br>Special Topics in Numerical Analysis | AUT/1994 - AUT/9999 | 2.0-03.0 | 15.0               | Y                                    | .               | .              | .                       | .                          | .                        | .                          | MATH 596          | AMATH 596        | .                |
|                      |                                                             |                     |          |                    | LAST UPDT: 6/27/14 APPROVED:11/01/84 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                             |                     |          |                    | COMMENT:REPLACES MATH 559            |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 597             | SEMINAR ON TEACHING<br>Seminar on Teaching Math             | SPR/1995 - AUT/9999 | 1.0      | 3.0                | Y                                    | CR/NC           | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                      |                                                             |                     |          |                    | LAST UPDT: 2/22/95 APPROVED: 2/21/95 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                             |                     |          |                    | COMMENT:CONVERTED FROM TEMPORARY     |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 598             | SEMINAR ON TECH<br>Seminar on Technology                    | SUM/1996 - AUT/9999 | 1.0      | 3.0                | Y                                    | .               | .              | .                       | .                          | .                        | .                          |                   |                  | .                |
|                      |                                                             |                     |          |                    | LAST UPDT: 7/29/14 APPROVED: 2/21/95 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                             |                     |          |                    | COMMENT:CONVERSION OF TEMPORARY      |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 600             | INDEPN DNT STDY/RSCH<br>Independent Study or Research       | SUM/1969 - AUT/9999 | 0.0      | 999.0              | .                                    | .               | 11             | .                       | .                          | .                        | .                          |                   |                  | .                |
|                      |                                                             |                     |          |                    | LAST UPDT: 4/19/10                   |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 700             | MASTERS THESIS<br>Master's Thesis                           | SUM/1973 - AUT/9999 | 0.0      | 999.0              | .                                    | .               | 11             | .                       | .                          | .                        | .                          |                   |                  | .                |
|                      |                                                             |                     |          |                    | LAST UPDT: 4/19/10 APPROVED: 1/01/70 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| MATH 800             | DOCTORAL DISSERTATN<br>Doctoral Dissertation                | SUM/1976 - AUT/9999 | 0.0      | 999.0              | .                                    | .               | 11             | .                       | .                          | .                        | .                          |                   |                  | .                |
|                      |                                                             |                     |          |                    | LAST UPDT: 4/19/10 APPROVED: 1/01/70 |                 |                |                         |                            |                          |                            |                   |                  |                  |