ed Nations conferences in which Missouri Southern participates. Although this course is designed to prepare delegates for these conferences, enrollment is not limited to Model UN participants. May be repeated for a total of 9 credit hours.

INTS 0333  (S-Odd)  3 hrs. cr.
What in the World is Going On Now?
Selected International Issues
In-depth study of a few current international issues and problems among the states of the world. Specific topics covered will be determined by the international agenda at the time the course is taught. Research, analysis and discussion will cover historical background, nature and motivations of parties involved and differing explanations of the issues selected. Prerequisite: PSC 120 and PSC 321 or consent of the instructor. Cross listed as PSC 333.

INTS 0401  (F)  3 hrs. cr.
Research Seminar in International Studies
This course will address the scope of research topics in contemporary international studies, as well as the variety of research methods associated with international studies. Fundamental elements of research design and execution will be addressed in order to prepare students for their senior thesis projects. Though there will be a substantive focus on international studies in this course, any student preparing to write a senior thesis will be allowed to enroll with consent of their adviser. Required of International Studies majors. Prerequisites: junior or senior standing.

INTS 0402  (F,S)  3 hrs. cr.
Senior Thesis in International Studies
(Writing Intensive)
With a faculty supervisor, the student will explore and challenge a topic of global concern and produce a senior thesis and make an oral presentation. Required of all International Studies majors. Prerequisite: Senior standing, permission of the director of the Institute of International Studies and INTS 401 or applicable research course determined by the Director of the Institute of International Studies.

INTS 0498  (Demand)  3 hrs. cr.
Advanced Topics in International Studies
For upper-division students. Topic to be announced each time the course is offered. Prerequisites are determined by the Institute of International Studies and stipulated in the course syllabus.

INTS 0499  (Demand)  1-3 hrs. cr.
Independent Study in International Studies
An independent course structured by the adviser with approval of the Director of the Institute of International Studies. Prerequisite: Must have completed 90 hours with a cumulative GPA of 3.0 and have completed a minimum of 15 hours of International Studies courses. Project must be approved by adviser, by the course director and by the Director of the Institute of International Studies prior to enrollment.

Faculty
Johnson - Head, L. Adkins, Charles Curtis, Carrie Curtis, Hand, Harmon, Laird, Lathrom, Vazquez

Mission
The Mathematics Department of Missouri Southern fills several key roles within the University. The Department contributes to the breadth of all majors on campus by providing the mathematics portion of the General Education requirements. For disciplines with a larger quantitative component, the Department offers courses that develop the mathematical tools that students in these disciplines will require. The Department provides a pair of courses to increase future elementary teacher’s command of mathematics and imbue them with confidence in its use. For prospective middle school and secondary mathematics teachers, the department offers a comprehensive curriculum designed to ensure that these students have both a mastery of the material they will be teaching and a depth of understanding that will allow them to see this material in a larger context. Additionally, the Department provides a comprehensive mathematics major, preparing students for careers in the academic, industrial or governmental arenas and a computational mathematics option, which allows a student to obtain a double major in mathematics and computer science.

The faculty of the Mathematics Department of Missouri Southern State University are committed to excellence in teaching and learning. Recognizing that a successful department is dependent on successful students, the faculty devotes a great deal of energy to communicating mathematics well both in and out of the classroom. Department faculty constantly pursue techniques to further the effectiveness of their teaching and to promote an environment conducive to the current and future success of its students.

In an increasingly technological society, applications of mathematics continue to increase in variety. Persons with quantitative ability and training are in high demand. Career opportunities exist in a diversity of fields such as engineering, computer science, economics, statistics, operations research, management and education. Missouri Southern graduates are enjoying success in all of these areas. Some graduates choose to begin careers immediately upon graduation; others choose to continue their education in graduate school. The curriculum is designed to prepare students for either path.

General Education Requirements for the bachelors and the associate of arts degree can be met with any mathematics course numbered 120 or above. Note the limitations on MATH 119 in the course description.

General education requirements for the associate of science degree can be met with any mathematics course numbered 030 or above.

For students majoring in mathematics, mathematics education, or computational math (or minoring in math), only courses in which they have earned a grade of ‘C’ or above can be used to satisfy departmental mathematics requirements and supporting requirements. Mathematics courses used as prerequisites require a grade of ‘C’ or better. Placement in the first college math course is based on the student’s score on the Mathematics Section of the ACT. More information is available in the individual course description, the Mathematics Department Office or on the following website: www.mssu.edu/math/place.htm.
### Mathematics

**Bachelor of Science with a Major in Mathematics**

Major Code MA00

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>Mathematics Requirements</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150</td>
<td>Calculus with Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Calculus with Analytic Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 260</td>
<td>Calculus with Analytic Geometry III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 300</td>
<td>Fundamentals of Mathematical Thought</td>
<td>3</td>
</tr>
<tr>
<td>MATH 340</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 342</td>
<td>Abstract Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 351</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH Electives numbered above 320</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supporting Requirements</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 250 General Physics I</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 260 General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 151 General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CIS 110 Programming I</td>
<td>3</td>
</tr>
<tr>
<td>CIS 210 Programming II</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>29</th>
</tr>
</thead>
</table>

**Total** | 124***

*Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of General Education Requirements.

**Must include one from MATH 350, 371, or 452 to satisfy Computer Literacy requirement and either 330, 371, or 452 to satisfy Writing Intensive requirement.

***Must include at least 40 Upper Division (300-400 level) hours.

**Bachelor of Science with a Major in Mathematics**

**Computational Mathematics Option***

Major Code MA01

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>Mathematics Requirements</th>
<th>34</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150</td>
<td>Calculus with Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Calculus with Analytic Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 260</td>
<td>Calculus with Analytic Geometry III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 300</td>
<td>Fundamentals of Mathematical Thought</td>
<td>3</td>
</tr>
<tr>
<td>MATH 340</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 350</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 351</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 361</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Introduction to Operations Research (WI)</td>
<td>3</td>
</tr>
<tr>
<td>CIS Electives numbered above 320</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**CIS Core Requirements** | 33 |

| CIS 110 | Programming I | 3 |
| CIS 202 | Information Systems I | 3 |
| CIS 210 | Programming II | 3 |
| CIS 310 | Database Management Systems I | 3 |
| CIS 315 | Computer Networks | 3 |
| CIS 345 | UNIX System Administration | 3 |
| CIS 350 | Data Structures | 3 |
| CIS 375 | IT Project Management | 3 |
| CIS 410 | Information Systems II | 3 |
| CIS 425 | Database Management Systems II (WI) | 3 |
| CIS 450 | Operating Systems (WI) | 3 |

**Supporting Requirements** | 10 |

| PHYS 250 | General Physics I | 2 |
| PHYS 260 | General Physics II | 3 |
| CHEM 151 | General Chemistry I | 5 |

| Electives | 8 |

**Total** | 124***

*This program is the same as the Bachelor of Science in CIS, Computer Science (Computational MATH Option). See page 191. Students selecting this option will graduate with a double major, Mathematics and Computer Information Science.

**Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of General Education Requirements.

**Bachelor of Science in Education with a Major in Mathematics**

**Grades 9-12 Certification**

Major Code ES15

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>Mathematics Requirements</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150</td>
<td>Calculus with Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Calculus with Analytic Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 260</td>
<td>Calculus with Analytic Geometry III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 300</td>
<td>Fundamentals of Mathematical Thought</td>
<td>3</td>
</tr>
<tr>
<td>MATH 332</td>
<td>Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 340</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 342</td>
<td>Abstract Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 351</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 361</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Introduction to Operations Research (WI)</td>
<td>3</td>
</tr>
</tbody>
</table>

**OR**

| MATH 452 | Mathematical Models | 3 |

**Supporting Requirements** | 16 |

| PHYS 250 | General Physics I | 2 |
| PHYS 260 | General Physics II | 3 |
| CHEM 151 | General Chemistry I | 5 |
| CIS 110 | Programming I | 3 |
| CIS 210 | Programming II | 3 |

**Education Certification Requirements** | 125-128 |

**Total**

*Required courses in mathematics, chemistry, physics and psychology satisfy major requirements and 11 hours of the General Education Requirements.

**Minor in Mathematics**

Minor Code MA80

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>Mathematics Requirements</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150</td>
<td>Calculus with Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Calculus with Analytic Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>MATH Electives numbered above 250</td>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

**Total** | 21

*At least 6 hours Upper Division (excluding MATH 302).

### For additional information contact:

- Dr. Kerry D. Johnson
- Office: Reynolds Hall 230
- Phone: 417.625.9675
- Email: johnson-k@mssu.edu
MATH 0020  (F,S,Su)  3 hrs. cr.
Beginning Algebra
The real number system, solving and graphing linear equations and inequalities, applications of linear equations, and systems of linear equations. No credit toward baccalaureate degree.

MATH 0025  (F,S)  2 hrs. cr.
Accelerated Beginning Algebra
Linear equations and inequalities with applications, graphing linear equations, systems of linear equations and inequalities, exponents. Other topics may be covered as time permits. Designed as a preparation for intermediate algebra for those students already having mastered real number arithmetic and solution of basic linear equations. No credit toward baccalaureate degree. Prerequisite: One year of high school algebra and score of at least 16 on the ACT Mathematics Section or qualifying score on the Mathematics Placement test.

MATH 0030  (F,S,Su)  3 hrs. cr.
Intermediate Algebra
Factoring, solving quadratic equations, operations on polynomials, operations on rational expressions, solving rational equations, operations on radicals, solving radical equations. Prerequisite: A Math ACT score of 19 (or higher) or MATH 020 or MATH 25 with a grade of 'C' or better. No credit towards a baccalaureate degree.

MATH 0119  (F,S)  3 hrs. cr.
Mathematics for Elementary Teachers I
The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: One year of high school algebra and one of the following: a) MATH 030 with a grade of 'C' or better, b) a score of 22 or above on the ACT Mathematics Section or c) a qualifying score on the departmental placement exam. (Will not meet the General Education mathematics requirements for non-elementary education majors.)

MATH 0120  (F,S,Su)  3 hrs. cr.
Math for Elementary Teachers II
A continuation of MATH 119. Geometric concepts in two and three dimensions, networks, constructions and similarity, probability and an introduction to statistics. This course satisfies the general education mathematics requirement for elementary education majors. Prerequisite: MATH 119 with a grade of 'C' or higher or permission of department.

MATH 0125  (F,S,Su)  3 hrs. cr.
Contemporary Mathematics
An introduction to various areas of mathematics, such as geometry, statistics, set theory, algebra and other topics. Satisfies the requirement in mathematics for General Education. Prerequisites: A Math ACT score of 22 (or higher) or MATH 030 with a grade of 'C' or higher.

MATH 0130  (F,S,Su)  3 hrs. cr.
College Algebra
A study of functions and their graphs; including linear and quadratic, polynomial, rational, exponential, and logarithmic functions. Prerequisites: A Math ACT score of 22 (or higher) or MATH 030 with grade of 'C' or higher.

MATH 0131  (F,S,Su)  3 hrs. cr.
Finite Mathematics
This course is designed for majors in the School of Business. The main topics for the course include: Functions and graphs (linear, polynomial, exponential, and logarithmic), linear programming, sets and probability, and an introduction to statistics. All topics emphasize applications in a business environment. Prerequisite: A Math ACT score of 22 (or higher) or MATH 030 with a grade of 'C' or higher.

MATH 0135  (F,S,Su)  3 hrs. cr.
Trigonometry
Trigonometric functions and applications, right triangle trigonometry, radian measure and applications, graphing trigonometric functions, using and verifying trigonometric identities, using sum, difference, half, and double angle formulas, solving trigonometric equations, inverse trigonometric functions, the law of sines and the law of cosines. Prerequisite: A Math ACT score of 22 (or higher) or MATH 030 with grade of 'C' or higher.

MATH 0140  (F,S)  5 hrs. cr.
Algebra and Trigonometry
Equivalent of MATH 130 and MATH 135. Prerequisites: A Math score of 22 (or higher) or MATH 030 with a grade of 'C' or higher. Only two hours credit for students with MATH 135 or MATH 130 credit. No credit for students with credit for MATH 130 and MATH 135.

MATH 0150  (F,S)  5 hrs. cr.
Calculus with Analytic Geometry I
Limits, differentiation, and integration of algebraic and transcendental functions as well as the application of these concepts to real world situations. Prerequisite: MATH 140 with a grade of 'C' or higher or a Math ACT score of 27 (or higher).

MATH 0250  (F,S)  5 hrs. cr.
Calculus with Analytic Geometry II
Differentiation and integration of transcendental functions, parametric equations, conic sections and polar coordinates. Infinite series. Applications to physical problems. Prerequisite: MATH 150 with a grade of 'C' or better.

MATH 0260  (F,S)  3 hrs. cr.
Calculus with Analytic Geometry III
Solid analytic geometry, partial differentiation and multiple integrals. Applications to physical problems. Prerequisite: MATH 250 with a grade of 'C' or better.

MATH 0300  (S)  3 hrs. cr.
Fundamentals of Mathematical Thought
Introduction to proofs, sets, logic, predicate calculus, relations, partitions, functions, and cardinality. Includes topics in number theory, discrete mathematics, analysis, and algebra. Prerequisite or co-requisite: MATH 260 with a "C" or better.

MATH 0302  (Demand)  3 hrs. cr.
Applied Calculus
Calculus applications of differentiation and integration in business, social science, life sciences, and engineering technology. Prerequisites: MATH 130 or MATH 131 with a grade of 'C' or better. Will not count toward a major or minor in mathematics.
MATH 0310  (Demand)  
Elementary Statistics  
Provides a basic statistical background for the various majors for advanced study in their specialties. Topics to be covered include data summary, measures of central tendency and variation, linear regression, and hypothesis testing with applications to health, social, managerial, biological and physical sciences. This course satisfies the general education requirements in mathematics. Prerequisite: MATH 120 (or higher) with a grade of ‘C’ or better.

MATH 0312  (F,S,Su)  
Problems of Teaching Arithmetic in the Elementary Schools  
(See EDUC 312 for description.) Will not count toward a major in mathematics. Prerequisite: MATH 119 and completion of Junior Block.

MATH 0315  (Su)  
Algebraic Structures for Teachers  
An introduction to modern algebra: Sets, relations and functions, groups, rings, integral domains and fields. The course will emphasize activities that incorporate these topics in the middle school/junior high mathematics curriculum. Will not count toward a major in mathematics. Prerequisite: MATH 150 with a grade of ‘C’ or better.

MATH 0322  (S)  
Differential Equations  
Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions, with applications. Prerequisite: MATH 250 with a grade of ‘C’ or better.

MATH 0330  (F-Odd)  
History of Math  
A multicultural approach to the history of mathematics from the beginnings to the discovery of Calculus. A study of the people and ideas that have shaped events in mathematics history. Historical and contemporary problems that reinforce ideas and methods of the past and present. Construction of a world map depicting important times and places in history. Prerequisite: MATH 250 with a grade of ‘C’ or better.

MATH 0332  (F-Even)  
Geometry  
Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean and non-Euclidean geometries. Prerequisite: MATH 250 with a grade of ‘C’ or better.

MATH 0339  (F)  
Teaching Mathematics in Secondary Schools  
Introduction to the instructional planning, materials and methods of teaching mathematics in the secondary schools. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

MATH 0340  (F)  
Discrete Mathematics  
The course is designed as an introduction to discrete mathematics which serves as a foundation for topics in computer science. Topics include: foundations of discrete mathematics, algorithms, graphs/trees, Boolean algebra, recurrence relations, combinatorics, and other topics as time allows. Prerequisite: MATH 260 or consent of the department head.

MATH 0342  (F-Odd)  
Abstract Algebra  
The course is designed as an introduction to algebra. Topics include: groups, permutations, cosets, homomorphisms, factor groups, rings, fields, integral domains, and ideals. Prerequisite: MATH 300 with a grade of ‘C’ or better.

MATH 0350  (F-Even)  
Introduction to Numerical Analysis  
Error analysis, solution of polynomial and transcendental equations, colocation polynomials, matrix methods, numerical differentiation and integration. Prerequisite: MATH 250 with a grade of ‘C’ or better and CIS 110 or higher with a grade of ‘C’ or better.

MATH 0351  (S)  
Linear Algebra  
Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite: MATH 300 with a grade of ‘C’ or better.

MATH 0361  (F)  
Probability and Statistics I  
Theory of probability using concepts and methods of calculus. A study of discrete and continuous distributions. The central limit theorem. Prerequisite: MATH 260 with a grade of ‘C’ or better.

MATH 0371  (F-Odd)  
Introduction to Operations Research  
Operations research/management science for computer science and mathematics students. Topics include linear and integer programming, project scheduling, inventory models and queuing theory. Prerequisites: MATH 260 with a grade of C or better and CIS 210 with a grade of C or better or equivalent computer programming ability.

MATH 0375  (Demand)  
Seminar in Advanced Problem Solving  
Techniques, strategies and reasoning tools useful for solving sophisticated mathematical problems from various areas and combinations of areas of mathematics. Prerequisite: MATH 300 with a grade of ‘C’ or better.

MATH 0407  (Demand)  
Overcoming Math Anxiety  
Designed to help students overcome their personal mathematics anxiety, this course will also teach students how to stop the math anxiety cycle for their prospective elementary school students. Using a variety of intervention strategies and instruction in elementary education mathematics and mathematics education pedagogy, the course will enable students to help reduce, prevent and eliminate fear and avoidance of mathematics in future generations of students. Prerequisite: MATH 111 or MATH 119.

MATH 0421  (S-Odd)  
Introduction to Advanced Calculus  
Methods of real analysis, basic topology of real numbers, series and sequences, the derivative and the Riemann integral. Prerequisite: MATH 300 with a grade of ‘C’ or better.

MATH 0452  (F-Even)  
Introduction to Mathematical Models  
Applying mathematics in formulating and analyzing models for real world problems. Topics include deterministic models, graphs as models, stochastic
models and computer simulation. Prerequisite MATH 260 with a grade of 'C' or better and CIS 210 with a grade of 'C' or better or equivalent computer programming ability.

MATH 0462  (S-Even)  3 hrs. cr.
Probability and Statistics II
Distributions of discrete and continuous random variables, sampling distributions and estimation of parameters. Investigation of the techniques of hypothesis testing, correlation and regression. Prerequisite: MATH 361 with a grade of 'C' or better.

MATH 0485  (S)  3 hrs. cr.
Topics in Mathematics
Advanced topics in mathematics. Each year a topic will be chosen from Complex Variables, Number Theory, Partial Differential Equations, Topology and Numerical Analysis, with the possibility of additional topics subject to demand. Prerequisites: MATH 260 with a grade of 'C' or better, with additional prerequisites depending on the topic.

MATH 0498  (Demand)  1-3 hrs. cr.
Advanced Topics in Mathematics
Designed to give advanced instruction in some area of mathematics not covered in other courses. For upper division majors. Prerequisites to be determined by the department.

MATH 0499  (Demand)  1-3 hrs. cr.
Independent Study
Course structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Students must make application several weeks in advance. Registration must be approved by the adviser, department head and school dean. See department head for details.

The Department of Music offers a Bachelor of Arts degree and a Bachelor of Science in Education degree with a major in Music. Each degree prepares graduates for performance, studio teaching and/or continued study toward an advanced degree. In addition, the Bachelor of Science in Education degree prepares graduates for teaching in public education.

General education requirements for one course in Area F, Humanities and Fine Arts, are fulfilled by MUS 110 Music Appreciation and/or MUS 106 World Music.

All music majors (with exception of piano majors) are required to pass a piano proficiency examination prior to graduation. Students must continue to enroll in piano courses regardless of credit requirements until piano proficiency is passed.

Bachelor of Arts with a Major in Music
Major Code MU00

General Education Requirements (p. 45) ................. 47
Foreign Language (four courses in one language) .................. 12
Music Requirements ........................................ 65
MUS 111 Music Theory I .................................. 4
MUS 112 Music Theory II* ................................ 4
MUS 182 Conducting Techniques* ........................... 2
MUS 211 Music Theory III* ................................ 3
MUS 212 Music Theory IV* ................................ 3
MUS 240 Recital Attendance (8 semesters) ................ Cr.
MUS 311 History of Music I* ............................... 3
MUS 312 History of Music II* ............................... 3
MUS 420 Form and Analysis* ................................ 3
MUS 433 Instrumental & Vocal Arranging* ................. 4
MUS 443 Advanced Choral Conducting***** .............. 2
MUS 444 Advanced Instrumental Conducting**** .......... 2
MUS 450 Senior Recital* ................................... Cr.
Large Music Ensemble (8 semesters)** ....................... 8
Private study in one area (8 semesters) ....................... 16
Piano requirements**# ........................................ 4
Music Electives# ................................................ 4
Total ..................................................................... 124**

*See Prerequisites
**Must include at least 40 Upper Division (300-400 level) hours.
***Must be taken the last eight semesters of residency.
****Voice majors may substitute with MUS 309 Choral Techniques.
*****Instrumental majors may substitute with MUS 413 Instrumental Music Methods.
^Typical Piano sequence: Class Piano 103, 104, 203, remaining credits can be filled with repeat enrollment in MUS 203 (until piano proficiency is passed) or Applied Piano credits (MUS 125, 126, 325, 326). Students with advanced piano skills may be eligible to test out of piano courses with approval of the department. (Also see Credit Options: "Advanced Standing Examination: on p. 43.)
#Piano majors must take 4 semester hours of music electives in lieu of the applied Piano elective. This is in ADDITION to the 4 credits of music electives required of all BA music majors.