LAH 1020
Survey Latin American History
3 Credits
To examine the major events in the history of Latin American countries from the colonial period to the present with special emphasis on social, cultural, political, and economic development.

LDE 1310
Irrigation and Water Management
3 Credits
Focuses on the major aspects of irrigation. Topics include water quality and treatment, irrigation design, installation tools and techniques, drainage and retention ponds, watering techniques for turf and plant quality, and conservation.

LIN 1670
English Grammar and Usage
3 Credits
Provides an intensive study of traditional grammar usage and mechanics for those students who desire to improve both their understanding and use of English. Provides an in-depth review of grammar to returning students. Complements English composition courses. Prequisites: College level reading and writing skills are required.

LIN 1670H
Honors English Grammar and Usage
3 Credits
Same as LIN 1670 with honors content. Honors Institute permission required. Prequisites: College level reading and writing skills are required.

LIS 1004
Introduction Internet Research
1 Credit
This course is delivered via the World Wide Web and Internet email. The course focuses on the methods of accessing information resources available through the Internet. Students will learn to design search strategies, retrieve resources, electronic journals, and electronic text, evaluate and cite Internet sources valuable for research purposes.

LIT 2110
World Literature to 1650
3 Credits
Focuses on the major periods and forms in literature from Greek and Roman Classicism through the Renaissance, excluding British and American literature. Topics will include the cultural background of each period and the distinctive characteristics of each style and genre. Prequisites: College level reading and writing skills required.

LIT 2110H
Honors World Literature to 1650
3 Credits
Same as LIT 2110 with honors content. Honors Institute permission required. Prequisites: College level reading and writing skills required.

LIT 2120
World Literature: 1650 to Present
3 Credits
Focuses on literature from the Renaissance to now. Prequisites: College level reading and writing skills are required.

LIT 2120H
Honors World Literature: 1650 to Present
3 Credits
Same as LIT 2120 with honors content. Honors Institute permission required. Prequisites: College level reading and writing skills are required.

LIT 2370
Introduction Bible as Literature
3 Credits
Introduces the student to the study of the Bible from a literary point of view using current critical writings as a resource. As such, the course will establish a foundation for an understanding of the Old and New Testaments from an historical, philosophical and literary perspective. Alternative prerequisite: permission of the instructor. Prequisite: ENC 1101

MAC 1105
College Algebra
3 Credits
Provides students with the opportunity to gain algebraic knowledge needed for many fields such as engineering, business, science, computer technology, and mathematics. Graphical and numerical methods support the study of functions and their corresponding equations and inequalities. Students will study linear, quadratic, polynomial, rational, exponential, logarithmic, inverse, composite, radical, and absolute value functions; systems of equations and inequalities; modeling applied problems; and curve fitting techniques. Previous credit in any MAC class precludes credit in MAC 1105. Prequisite: MAT 1033 with a minimum grade of C.

MAC 1105H
Honors College Algebra
3 Credits
Same as MAC 1105 with honors content. Honors Institute permission required. Prequisite: MAT 1033 with a minimum grade of C.
MAC 1114
Trigonometry
3 Credits
Major topics include trigonometric functions, their properties and graphs; inverse trigonometric functions, their properties and graphs; conditional trigonometric functions; solutions of triangles; vector algebra; parametric equations; polar coordinates; applications. Previous credit for MAC 1147 precludes credit for MAC 1114.
Prerequisite: MAC 1105 with a minimum grade of C.

MAC 1140
Pre-Calculus Algebra
3 Credits
Major topics include polynomial, rational, and other algebraic functions, their properties and graphs; polynomial and rational inequalities; exponential and logarithmic functions, their properties and graphs; piecewise defined functions; conic sections; matrices and determinants; sequences and series; mathematical induction; binomial theorem; applications. Previous credit for MAC 1147 precludes credit for MAC 1140.
Prerequisites: MAC 1105 with a minimum grade of C.

MAC 1147
Pre-Calculus Algebra and Trigonometry
5 Credits
Major topics include polynomial, rational, and other algebraic functions, their properties and graphs; polynomial and rational inequalities; exponential and logarithmic functions, their properties and graphs; piecewise defined functions; trigonometric functions, their properties and graphs; inverse trigonometric functions, their properties and graphs; trigonometric identities; conditional trigonometric equations; solutions of triangles; vector algebra; parametric equations; polar coordinates; conic sections; matrices and determinants; sequences and series; mathematical induction; binomial theorem; applications. Previous credit for MAC 1114 or MAC 1140, precludes credit for MAC 1147.
Prerequisite: MAC 1105 with a minimum grade of B. College level math skills are required.

MAC 2233
Calculus for Business and Social Science
3 Credits
Provides a review of functions and an introduction to limits, with an emphasis on differentiation and integration of algebraic, exponential and logarithmic functions. Topics are directed toward applications in business, economic, social and behavioral sciences. Previous credit for MAC 2311 precludes credit for MAC 2233.
Prerequisite: MAC 1105 or MAC 1140 with a minimum grade of C.

MAC 2241
Calculus for the Life Sciences
5 Credits
This is a Calculus I course with a heavy emphasis on applications to biological systems. The basic concepts of Calculus, such as limits, continuity, derivatives, extreme value theorem, differentials, integration and the fundamental theorem, will be developed together with solutions techniques of both analytical and numerical nature. Differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions with applications to life sciences and other topics of interest to biology, psychology, pre-medical, pre-pharmacy, pre-dental, and pre-veterinary students will be covered. Students cannot receive credit for this course and also for MAC 2311 (Calculus 1) or MAC 2233 (Calculus for Business).
Prerequisites: MAC 1140 and MAC 1114 or MAC 1147 with a minimum grade of C.

MAC 2311
Calculus and Analytic Geometry I
5 Credits
This is the first of a three-course sequence in calculus. Major topics include limits, continuity, and differentiation and integration of algebraic, trigonometric, exponential and logarithmic functions. Applications include rates of change, related rates, mean value theorem, extreme values, curve sketching, differentials, area, volume and work.
Prerequisites: MAC 1114 and MAC 1140 or MAC 1147 with a minimum grade of C or appropriate score on HCC Placement Test.

MAC 2312
Calculus and Analytical Geometry II
5 Credits
This is the second in a three-course sequence in calculus. Major topics include differentiation and integration of hyperbolic functions, algebraic, trigonometric, and numerical integration techniques, applications of integrals, improper integrals, parametric equations, polar coordinates, conics, and sequences and series.
Prerequisite: MAC 2311 with a minimum grade of C.

MAC 2313
Calculus and Analytical Geometry III
5 Credits
A continuation of MAC 2312. Focuses on arc length and surface area, vectors in two and three dimensional space, planes, lines and surfaces in three-dimensional space, functions of more than one variable, partial derivatives, double and triple integrals and their applications, cylindrical and spherical coordinates, vector fields, line integrals, Green's theorem and Stoke's theorem.
Prerequisites: MAC 2312 with a minimum grade of C.

MAN 1021
Principles of Management
3 Credits
This course presents an overview of the management functions including planning, organizing, controlling, leading, and problem-solving in organizations; reviews foundations of management thought and managerial processes that lead to organizational effectiveness in today's global business environment.
Prerequisites: College level reading and writing skills are required.
MAN 1949
Management Internship
3 Credits
A coordinated work-study course involving class work and field experience. Objectives determined by the student and teacher-coordinator will be used to evaluate the student. This course may be repeated six times for credit. Credit for this course does not apply to the associate in arts degree.

MAN 2604
Intercultural Relations in Business
3 Credits
Examines the influence of individual differences and ethnic and national culture on behaviors within organizations and across national borders. Addresses the questions of how and when to be sensitive to these issues, and develops skills required to effectively manage in diverse environment. Prerequisite: College level reading and writing skills are required.

MAN 2761
Strategic Business Management and Leadership
3 Credits
This course examines techniques to creatively vision and analyze the future to prepare individuals and organizations for future opportunities and threats. Designed to familiarize students with techniques for analyzing the future, critical issues, how the future will impact them as individuals. This course will expand the concepts in MAN 1021 by focusing on strategies for effective planning management and leadership.

MAP 2302
Differential Equations
3 Credits
Covers first order differential equations including those with separable variables, homogeneous and exact equations and equations made by an integrating factor. Topics include linear differential equations of higher order and their solutions including both homogeneous and non-homogeneous equations, differential operators, Laplace transforms, and series solutions and applications. Designed for engineering and mathematics majors. Prerequisite: MAC 2312 with a minimum grade of C.

MAT 0020
Integrated Arithmetic and Algebra
6.00 Credits
This course combines the arithmetic and algebra skills of MAT 0012 and MAT 0024. This course includes all mathematics skills necessary for entry into college level mathematics. Arithmetic topics include operations with real numbers, fractions, decimals, exponents, geometry measurement systems, percents and ratios. Algebra topics include polynomial operation, factoring, solving and graphing linear equations and inequalities, operations with quadratic equations, and applications of all concepts. This course does not satisfy general education requirements and generates compensatory credit only. Permission from instructor required.

MAT 0024
Beginning Algebra
4 Credits
Provides an introduction to algebra. Topics include basic linear equations, properties of real numbers, operations involving exponents and polynomials, factoring, quadratic equations, literal equations, systems of linear equations, rational expression equations, applications, graphing equations and inequalities, radical simplification and radical equations. This course
does not satisfy general education requirements in math and is awarded compensatory credit only. All students who successfully complete this course are required to complete MAT 1033 before enrolling in their first general education mathematics course and are encouraged to do so in consecutive semester. Prerequisite: MAT 0012 or appropriate score on the HCC placement test.

**MAT 1033**  
**Intermediate Algebra**  
3 Credits  
Topics include sets, relations, functions, polynomial operations, factoring, absolute value, rational expressions, and equations (linear, quadratic, radical, rational) systems of equations, inequalities, exponents, radicals, graphs of linear equations, and inequalities in two variables, complex numbers, and applications. Elective credit only. Prerequisites: MAT 0024 with a grade of C or better or appropriate score on HCC placement test.

**MCB 1000**  
**Microbiology and Human Disease**  
3 Credits  
Intended for Biology and Allied Health majors. Focuses on disease states, bacteria, viruses, fungi, rickettsiae and other pathogenic organisms. Topics will include problems of sterilization, infections, resistance, diagnostic testing and immunization. Prerequisites: College level reading and writing skills are required. Corequisite: MCB 1000L

**MCB 1000L**  
**Microbiology Lab**  
1 Credit  
A special fee will be charged for this course. Prerequisites: College level reading and writing skills are required. Corequisite: MCB 1000

**MCB 1060**  
**Food Microbiology**  
3 Credits  
This course offers detailed examination of the principles of food microbiology and their application to current food technology. Additional topics covered will be food and enzymes produced by microorganisms, food in relation to disease, food sanitation control and inspection and the Food Additives Amendment of the Federal Food, Drug and Cosmetic Act. Corequisite: MCB 1060L

**MCB 1060L**  
**Food Microbiology Lab**  
1 Credit  
This course is designed to accompany MCB 1060. Aseptic techniques and the culturing of microorganisms are presented. Various techniques for culturing foods, performing food counts, preparing food using microorganisms, and sampling the environment for microorganisms are presented. Corequisite: MCB 1060

**MCB 2010**  
**General Microbiology**  
3 Credits  
Focuses on a survey of general topics in microbiology needed by students majoring in biology, microbiology and allied health. Emphasis is given to the structures, functions, classification, metabolism and genetics of microorganisms. The course explores the interaction between infectious microorganisms and the human body including a survey of typical infectious diseases. Prerequisite: BSC 1010  
Corequisite: MCB 2010L

**MCB 2010L**  
**Gen Microbiology Lab**  
1 Credit  
Prerequisites: BSC 1010L  
Corequisite: MCB 2010

**MET 2010C**  
**Meteorology**  
3 Credits  
A one semester course for non-science majors that focuses on the physical properties and dynamics of the atmosphere. Topics include the origin and evolution of the atmosphere, storms and severe weather, weather forecasting and analysis, and the impact of weather and climate on humankind. Prerequisites: College level reading, writing and math skills are required.

**MGF 1106**  
**Math for Liberal Arts I**  
3 Credits  
Topics will include finite and infinite sets, logic, deductive and inductive reasoning, geometry, counting methods, probability and statistics. Studying these topics will develop a broader base of mathematical knowledge. This course may be used to satisfy part of the mathematics general education requirement for the associate in arts degree. Prerequisite: MAT 1033 with a C or better, or required score on HCC placement score.

**MGF 1106H**  
**Honors Math Liberal Arts I**  
3 Credits  
Same as MGF 1106 with honors content. Honors Institute permission required. Topics will include finite and infinite sets, logic, deductive and inductive reasoning, geometry, counting methods, probability, statistics, and bases of number systems. These topics will be helpful in developing a broader base of mathematical knowledge. This course may be used to satisfy part of the mathematics general education requirement for the associate in arts degree. Prerequisite: MAT 1033 with a C or better, or required score on HCC placement score.
MGF 1107
Math for Liberal Arts II
3 Credits
Topics will be chosen from the following: financial mathematics; sequences and series; elementary number theory; history of mathematics; linear and exponential growth; voting theory; chaos and fractals; reflections and translations in geometry; graph theory; game theory; and mathematical use of calculators and computers. These topics will be helpful in developing a broader base of mathematical knowledge. This course may be used to satisfy part of the mathematics general education requirement for the associate in arts degree.
Prerequisite: MAT 1033 with a minimum grade of C or appropriate score on the HCC placement test.

MGF 1107H
Honors Math Liberal Arts II
3 Credits
Same as for MGF 1107 with honors content. Honors Institute permission required.

MGF 1119
Introduction Math with Applications
3 Credits
This course is designed to provide a survey of mathematics topics to serve the associate in science and the associate in applied science degree programs. Focuses on sets, probability, statistics, metric measurement, geometry, syllogisms and consumer mathematics with an emphasis on problem solving, reasoning, and the use of a calculator. This course does not satisfy the general education mathematics requirement of associate in arts students.
Prerequisites: MAT 0024 with a minimum grade of C.

MKA 1949
Marketing Internship
3 Credits
A coordinated work-study course involving class work and field experience. Objectives determined by the student and teacher-coordinator will be used to evaluate the student. This course may be repeated six times for credit. Credit for this course does not apply to the associate in arts degree.

MKA 2021
Salesmanship
3 Credits
Covers the basic principles of selling, with an emphasis on finding and qualifying prospects, obtaining the sale and closing it. Techniques are taught through demonstrations, projects and case studies. Credit for this course does not apply to the associate in arts degree.

MMC 2100
Writing for Mass Communication
3 Credits
Covers the basic techniques used in preparing copy for mass media including the fundamental journalistic skills used in writing for newspapers, magazines, radio, television, public relations and advertising.
Prerequisites: MMC 2000. College writing skills are required.

MNA 1162
Introduction Customer Service Technology
3 Credits
Describes the process of functioning effectively in a services economy. Defines and describes the nature and characteristics of services and the ways services need to be marketed due to their intangible core. Topics include service quality, the foundation of services marketing, and the success factors in service marketing. Credit for this course does not apply to the associate in arts degree.

MNA 1320
HR Recruitment Interviewing and Selecting
3 Credits
Provides a detailed overview of staffing activities crucial to organization performance. Within the context of current law and regulations, the focus will be on the assessment of staffing needs, recruitment strategies, interviewing techniques, selection tools and methods, planning and implementation of staffing policies. Credit for this course does not apply to the associate in arts degree.

MNA 1325
HR Statistical Analysis, Compensation and Benefits
3 Credits
An examination of the compensation systems in large and small organizations, the methods and implications of making wage and salary decisions, and the use of statistical analysis in decision making. Topics include: job analysis, job evaluation, wage surveys, incentives, pay equity, benefits and compensation strategy, and legal perspectives. Credit for this course does not apply to the associate in arts degree.

MSL 1001C
Leadership and Personal Development
2 Credits
Introduces personal challenges and competencies critical to effective leadership; teaches personal development life skills relative to leadership, officership, and the Army profession; focuses on gaining understanding of the ROTC program and its purpose in the Army.

MSL 1002C
Introduction to Tactical Leadership
2 Credits
Presents leadership basics (e.g.: setting direction, problem-solving, listening, briefs, giving feedback and use of effective writing skills); explores dimensions of leadership values, attributes, skills and actions in context of practical hands-on exercises.
MSL 2101C  
Innovative Team Leadership  
2 Credits  
Explores creative and innovative tactical leadership strategies and styles. Develops knowledge of leadership values and attributes by understanding Army rank, structure, and duties. Broadens knowledge of land navigation and squad tactics.

MSL 2102C  
Foundations of Tactical Leadership  
2 Credits  
Examines challenges of leading tactical teams in complex current operating environment; highlights dimensions of terrain analysis, patrolling and operation orders; develops greater self-awareness, communication and team building skills.

MSL 2900  
Army Physical Readiness  
1 Credit  
This course will train students in the unique role of Army physical readiness in sustaining military operations. It will also prepare students to plan, prepare, and conduct military fitness training. Student can receive one credit per semester for up to four semesters.

MTB 1103  
Math for Business  
3 Credits  
Focuses on depreciation, overhead allocation, sales and property taxes, insurance, wages and payrolls, trade and cash discounts, markup and markdown, simple and compound interest, present value, bank discount, installment purchasing and annuities. Credit for this course does not apply to the associate in arts degree.  
Prerequisites: College level math skills are required.

MTB 1304  
Graphing Calculator  
1 Credit  
Covers the basic use of graphing calculators with an emphasis on the TI86 calculators. Topics include: basic operations, evaluating expressions, tables, solving linear and nonlinear equations and inequalities, graphs of linear, polynomial, rational and piece-wise defined functions, and identifying the characteristics of graphs. Graphing calculator required.  
Prerequisites: College level math skills are required.

MTB 1327  
Electronics Math  
4 Credits  
Focuses on the basic algebraic and trigonometric skills required in the study of electronics. Topics include algebraic operations, equations, and fractions. Also included are solving simultaneous linear equations, trigonometric functions, right triangle applications, vectors, phasor algebra, and logarithms. Credit for this course does not apply to the associate in arts degree.  
Prerequisites: College level math skills are required.

MUL 1010  
Introduction to Music  
3 Credits  
Covers the basic principles of music and techniques for listening to music, with an emphasis on Western music from the 17th century to the present.  
Prerequisites: College level reading and writing skills are required.

MUM 1623  
Electronic Music: Introduction MIDI  
3 Credits  
An introduction to electronic music composition through lecture and studio instruction, with an emphasis on the MIDI system, in conjunction with computers and the digital synthesizer.  
Prerequisite: MUT 1111

MUN 1120  
Concert Band I  
1 Credit  
Provides for participation in a concert band which performs traditional and contemporary music. This course may be repeated four times for credit.

MUN 1310  
Chorus  
1 Credit  
Provides for participation in a chorus which performs a variety of music at college and public functions. This course may be repeated four times for credit.

MUN 1340  
Vocal Ensemble  
1 Credit  
Provides for participation in small performing groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.

MUN 1410  
String Ensemble  
1 Credit  
Provides for participation in small instrumental groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.

MUN 1420  
Woodwind Ensemble  
1 Credit  
Provides for participation in small instrumental groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.

MUN 1430  
Brass Ensemble  
1 Credit  
Provides for participation in small instrumental groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.
MUN 1440
Percussion Ensemble, Small Ensemble
1 Credit
Provides for participation in small instrumental groups and includes the study of traditional and contemporary music. This course may be repeated four times for credit.

MUN 1450
Piano Ensemble
1 Credit
Designed to assist the pianist in learning how to perform in ensemble with other musicians. Repertoire will include piano duet and duo piano works from the standard repertoire. May be repeated for credit each semester.
Prerequisite: Approval of instructor.

MUN 1480
Classical Guitar Ensemble
1 Credit
Open to all students, faculty and members of the community who play guitar. Enrollment is determined by the director through audition. Participants will study and perform music from all periods in preparation for public performance. May be taken six times for credit.

MUN 1710
Stage Band I, Major Ensemble
1 Credit
Provides for participation with a select group of musicians who perform contemporary jazz and stage band music. This course may be repeated four times for credit.

MUO 1001
Musical Theatre Workshop I
2 Credits
Open to those interested in musical theatre with approval of the instructor. Includes development of musical theatre repertoire, acting and movement performance skills. May include mock auditions or a public performance. This class is a performance class and participation is required. May be repeated for credit.

MUS 1010
Recital Attendance
Students in this course are required to attend recitals and concerts approved by the Hillsborough Community College, Ybor City Campus School of Visual and Performing Arts Music Department. This course is required of all students enrolled in Applied Music, principal instrument (or voice) courses. It is a non-credit S/U (Satisfactory/Unsatisfactory) course.

MUT 1111
Music Theory I
3 Credit
Covers the rudiments of music, with an emphasis on major and minor scales, rhythmic and melodic notation, triads, intervals, cadences, chords and inversions and four part music writing. Topics include the development of aural and visual skills in music reading, rhythmic, melodic and harmonic dictation and the practical application of basic harmonic principles.
Corequisite: MUT 1241L

MUT 1112
Music Theory II
3 Credit
A continuation of MUT 1111
Corequisite: MUT 1242L

MUT 1241L
Sight Singing and Ear Training I
1 Credit
Trains students to visually and aurally recognize the melodic, rhythmic and harmonic patterns studied in Theory I, translate patterns from aural stimulus to notation and visual/cognitive stimulus to performance in real time.
Corequisite: MUT 1111

MUT 1242L
Sight Singing and Ear Training II
1 Credit
Trains students to visually and aurally recognize the melodic, rhythmic and harmonic patterns studied in Theory II, translate patterns from aural stimulus to notation and visual/cognitive stimulus to performance in real time.
Corequisite: MUT 1112

MUT 2116
Music Theory III
3 Credits
Focuses on the development of music from Beethoven through the 20th century, with an emphasis on the techniques of four part harmonization, including triads and chords, with an introduction to counterpoint.
Corequisite: MUT 2246L

MUT 2117
Music Theory IV
3 Credits
A continuation of MUT 2116
Corequisite: MUT 2247L

MUT 2246L
Sight Singing/Ear Training III
1 Credit
Trains students to visually and aurally recognize the melodic, rhythmic and harmonic patterns studied in Theory III, translate patterns from aural stimulus to notation and visual/cognitive stimulus to performance in real time.
Corequisite: MUT 2116
MUT 2247L
Sight Singing/Ear Training IV
1 Credit
Trains students to visually and aurally recognize the melodic, rhythmic and harmonic patterns studied in Theory IV, translate patterns from aural stimulus to notation and visual/cognitive stimulus to performance in real time.
Corequisite: MUT 2117

MVB 1011
Pre-Principal Freshman Trumpet (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001

MVB 1011
Pre-Principal Freshman Trumpet (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010

MVB 1012
Pre-Principal Freshman Horn (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001

MVB 1012
Pre-Principal Freshman Horn (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001

MVB 1013
Pre-Principal Freshman Trombone (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001

MVB 1013
Pre-Principal Freshman Trombone (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010

MVB 1014
Pre-Principal Freshman Baritone (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001

MVB 1014
Pre-Principal Freshman Baritone (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001
availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010

MVB 1015
Pre-Principal Freshman Tuba (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001

MVB 1015
Pre-Principal Freshman Tuba (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010

MVB 1211
Secondary Freshman Trumpet
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010

MVB 1212
Secondary Freshman Horn
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010

MVB 1213
Secondary Freshman Trombone
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the require
MVB 1315
Principal Freshman Tuba
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Corequisite: MUS 1010

MVB 2221
Secondary Sophomore Trumpet
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Corequisite: MUS 1010

MVB 2222
Secondary Sophomore Horn
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Corequisite: MUS 1010

MVB 2223
Secondary Sophomore Trombone
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Corequisite: MUS 1010

MVB 2224
Secondary Sophomore Baritone
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Corequisite: MUS 1010

MVB 2225
Secondary Sophomore Tuba
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Corequisite: MUS 1010

MVB 2321
Principal Sophomore Trumpet
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVB 1311
Corequisite: MUS 1010

MVB 2322
Principal Sophomore Horn
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisites: MVB 1312
Corequisite: MUS 1010

MVB 2323
Principal Sophomore Trombone
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVB 1313
Corequisite: MUS 1010

MVB 2324
Principal Sophomore Baritone Horn
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVB 1314
Corequisite: MUS 1010

MVB 2325
Principal Sophomore Tuba
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVB 1315
Corequisite: MUS 1010

MVK 1011
Pre-Principal Freshman Piano (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001
MVK 1011
Pre-Principal Freshman Piano (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010

MVK 1111
Freshman Class Piano
1 Credit
Covers beginning piano skills for non keyboard music majors by combining lecture and outside practice. This course may be repeated once for credit.

MVK 1211
Secondary Freshman Piano
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.
Corequisite: MUS 1010

MVK 1311
Principal Freshman Piano
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Corequisite: MUS 1010

MVK 1811
Class Piano/Non Music Majors
1 Credit
Beginning piano for the non music major. This course may be repeated four times for credit.

MVK 2121
Sophomore Class Piano
1 Credit
Prepares the non keyboard music major in basic piano proficiency. This course may be repeated once for credit.
Prerequisite: MVK 1111

MVK 2221
Secondary Sophomore Piano
1 Credit
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but

MVP 1011
Pre-Principal Freshman Percussion (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001

MVP 1011
Pre-Principal Freshman Percussion (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010

MVP 1211
Secondary Freshman Percussion
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.
Corequisite: MUS 1010

MVP 1311
Principal Freshman Percussion
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Corequisite: MUS 1010
MVP 2221  
Secondary Sophomore Percussion  
1 Credit  
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.  
Corequisite: MUS 1010

MVP 2321  
Principal Sophomore Percussion  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVP 1311  
Corequisite: MUS 1010

MVS 1011  
Pre-Principal Freshman Violin (A)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010, MUT 1001

MVS 1011  
Pre-Principal Freshman Violin (B)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010

MVS 1012  
Pre-Principal Freshman Viola (B)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010, MUT 1001

MVS 1013  
Pre-Principal Freshman Cello (A)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010

MVS 1013  
Pre-Principal Freshman Cello (B)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010

MVS 1014  
Pre-Principal Freshman String Bass (A)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisites: MUS 1010, MUT 1001
**MVS 1014**  
**Pre-Principal Freshman String Bass (B)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010

**MVS 1016**  
**Pre-Principal Freshman Guitar (A)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010, MUT 1001

**MVS 1016**  
**Pre-Principal Freshman Guitar (B)**  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010

**MVS 1116**  
**Class Guitar**  
1 Credit  
Guitar class: group instruction in beginning classical guitar techniques. May be repeated four times for credit.

**MVS 1211**  
**Secondary Freshman Violin**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.  
Corequisite: MUS 1010

**MVS 1212**  
**Secondary Freshman Viola**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.  
Corequisite: MUS 1010

**MVS 1213**  
**Secondary Freshman Cello**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.  
Corequisite: MUS 1010

**MVS 1214**  
**Secondary Freshman String Bass**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.  
Corequisite: MUS 1010

**MVS 1216**  
**Secondary Freshman Guitar**  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.  
Corequisite: MUS 1010

**MVS 1311**  
**Principal Freshman Violin**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Corequisite: MUS 1010

**MVS 1312**  
**Principal Freshman Viola**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Corequisite: MUS 1010
MVS 1313  
**Principal Freshman Cello**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Corequisite: MUS 1010

MVS 1314  
**Principal Freshman String Bass**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Corequisites: MUS 1010

MVS 1316  
**Principal Freshman Guitar**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Corequisite: MUS 1010

MVS 2221  
**Secondary Sophomore Violin**  
1 Credit  
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Prerequisite: MVS 1311  
Corequisite: MUS 1010

MVS 2321  
**Principal Sophomore Violin**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVS 1311  
Corequisite: MUS 1010

MVS 2222  
**Secondary Sophomore Viola**  
1 Credit  
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Prerequisite: MVS 1312  
Corequisite: MUS 1010

MVS 2322  
**Principal Sophomore Viola**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVS 1312  
Corequisite: MUS 1010

MVS 2223  
**Secondary Sophomore Cello**  
1 Credit  
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Prerequisite: MVS 1313  
Corequisite: MUS 1010

MVS 2323  
**Principal Sophomore Cello**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVS 1313  
Corequisite: MUS 1010

MVS 2224  
**Secondary Sophomore String Bass**  
1 Credit  
This course is a continuation of MV_222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Prerequisite: MVS 1314  
Corequisite: MUS 1010

MVS 2324  
**Principal Sophomore String Bass**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVS 1314  
Corequisite: MUS 1010

MVS 2326  
**Principal Sophomore Guitar**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVS 1316  
Corequisite: MUS 1010
MVV 1011
Pre-Principal Freshman Voice (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010, MUT 1001

MVW 1011
Pre-Principal Freshman Flute (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisites: MUS 1010, MUT 1001

MVW 1011
Pre-Principal Freshman Flute (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010

MVW 1012
Pre-Principal Freshman Oboe (A)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisites: MUS 1010, MUT 1001

MVW 1111
Elementary Voice
1 Credit
Covers the fundamentals of voice production; designed as a secondary study for the applied piano music major, or as an elective for the non music major. This course may be repeated four times for credit.

MVV 1211
Secondary Freshman Voice
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010

MVV 1311
Principal Freshman Voice
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once.
Corequisite: MUS 1010

MVV 2221
Secondary Sophomore Voice
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010

MVV 2321
Principal Sophomore Voice
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Prerequisite: MVV 1311
Corequisite: MUS 1010

MVV 1011
Pre-Principal Freshman Voice (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010

MVV 1011
Pre-Principal Freshman Flute (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisite: MUS 1010

MVW 1011
Pre-Principal Freshman Flute (B)
2 Credits
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'
Corequisites: MUS 1010, MUT 1001
MVW 1012  
Pre-Principal Freshman Oboe (B)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010

MVW 1013  
Pre-Principal Freshman Clarinet (A)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisites: MUS 1010, MUT 1001

MVW 1014  
Pre-Principal Freshman Bassoon (A)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisites: MUS 1010, MUT 1001

MVW 1015  
Pre-Principal Freshman Saxophone (A)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010

MVW 1014  
Pre-Principal Freshman Bassoon (B)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisite: MUS 1010

MVW 1015  
Pre-Principal Freshman Saxophone (B)  
2 Credits  
This course is for the student who intends to be a music major, but who lacks the technique, music reading skills and/or performance experience proficiencies expected of a student wishing to register for the first semester college freshman level of applied music instruction. The course also serves those who are not music majors, but who wish to study an instrument on the college level. In such cases, enrollment is subject to space availability and instructor approval. Students may take two semesters, designated 'A' and 'B.'  
Corequisites: MUS 1010, MUT 1001

MVW 1211  
Secondary Freshman Flute  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the requirements for entry to the MV_13XX level course. This course may be repeated once for credit.  
Corequisite: MUS 1010

MVW 1212  
Secondary Freshman Oboe  
1 Credit  
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_10XX level but still does not meet the require
ments for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Corequisite: MUS 1010

**MVW 1213**
**Secondary Freshman Clarinet**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated once for credit.
Corequisite: MUS 1010

**MVW 1214**
**Secondary Freshman Bassoon**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010

**MVW 1215**
**Secondary Freshman Saxophone**
1 Credit
This course is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010

**MVW 1311**
**Principal Freshman Flute**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Corequisite: MUS 1010

**MVW 1312**
**Principal Freshman Oboe**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Corequisite: MUS 1010

**MVW 1313**
**Principal Freshman Clarinet**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Corequisite: MUS 1010

**MVW 1314**
**Principal Freshman Bassoon**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Corequisite: MUS 1010

**MVW 1315**
**Principal Freshman Saxophone**
2 Credits
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.
Corequisite: MUS 1010

**MVW 2221**
**Secondary Sophomore Flute**
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010

**MVW 2222**
**Secondary Sophomore Oboe**
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010

**MVW 2223**
**Secondary Sophomore Clarinet**
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010

**MVW 2224**
**Secondary Sophomore Bassoon**
1 Credit
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.
Corequisite: MUS 1010
MVW 2225  
**Secondary Sophomore Saxophone**  
1 Credit  
This course is a continuation of MV_ 222X and is designed for the music major who wishes to study a secondary instrument, or for a student who has completed the MV_ 10XX level but still does not meet the requirements for entry to the MV_ 13XX level course. This course may be repeated 1 time for credit.  
Corequisite: MUS 1010

MVW 2321  
**Principal Sophomore Flute**  
2 Credits  
Students must audition for placement in this course and will receive private instruction on one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVW 1311  
Corequisite: MUS 1010

MVW 2322  
**Principal Sophomore Oboe**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVW 1312  
Corequisite: MUS 1010

MVW 2323  
**Principal Sophomore Clarinet**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVW 1313  
Corequisite: MUS 1010

MVW 2324  
**Principal Sophomore Bassoon**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once for credit.  
Prerequisite: MVW 1314  
Corequisite: MUS 1010

MVW 2325  
**Principal Sophomore Saxophone**  
2 Credits  
Students must audition for placement in this course and will receive private instruction of one contact hour weekly. This course may be repeated once.  
Prerequisite: MVW 1315  
Corequisite: MUS 1010

NMT 1002  
**Introduction Nuclear Medicine**  
3 Credits  
Focuses on the history of nuclear medicine, nuclear medicine procedures, and basic concepts of radioactivity, radiation detection, instrumentation, radiation safety and production of radio pharmaceuticals. Field trips to nuclear medicine training facilities are included. Credit for this course does not apply to the associate in arts degree.

NMT 1051  
**Nuclear Medicine Data Analysis**  
3 Credits  
Presents concepts dealing with data acquisition and reduction relative to the practice of nuclear medicine technology. Credit for this course does not apply to the associate in arts degree.

NMT 1103  
**Introduction Patient Care**  
2 Credits  
Covers the basic concepts of patient care with an overview of proper patient management. Credit for this course does not apply to the associate in arts degree.

NMT 1312  
**Radiation Safety and Health Physics**  
3 Credits  
Covers proper techniques in the safe handling of radioactive materials, with an emphasis on proper receipt, usage, storage and disposal of radioactive materials. Topics include rules, standards, regulations and biological effects of radiation. Credit for this course does not apply to the associate in arts degree.  
Prerequisite: NMT 1613

NMT 1534  
**Nuclear Instrumentation**  
3 Credits  
Covers the basic operation of various radiation detection instruments including the Geiger Muller detector, analyzers, ionization chambers, scanners and cameras. Credit for this course does not apply to the associate in arts degree.  
Corequisite: NMT 1534L

NMT 1534L  
**Nuclear Instrumentation Lab**  
1 Credit  
Accompanies NMT 1534. Laboratory exercises include plotting gamma spectra, instrument calibration, detector resolution, simultaneous and radio nuclide quantification. Credit for this course does not apply to the associate in arts degree.  
Corequisite: NMT 1543

NMT 1613  
**Nuclear Physics**  
3 Credits  
Covers the basic concepts of atomic, nuclear and radiation physics with an emphasis on the interaction of radiation with matter. Alpha, beta and gamma sources are used with various