ISS 1905
Independent Study – Social Science, 1 credit hour, 45 hours (Offered as needed)
Directed study and individual projects designed to meet the needs of students interested in a specialized area of the social sciences for which present course availability is limited. This course may be taken up to four (4) times for credit.

LIN 1670
Writing and Grammar, 3 credit hours, 45 lec., (Fall, Spring, Summer)
The course includes practice in writing short essays and encompasses a comprehensive review of grammar and mechanics. Placement is determined by (1) a grade of “C” or better in ENC 0080 or (2) by a score of 83 or above on the Florida College Placement Test. This course is strongly recommended for students scoring 83-91 on the FCPT. Prerequisites: ENC 0080 with a grade of “C” or better or placement scores of 83-91 on the FCPT.

LIN 1742
English Grammar and Style, 3 credit hours, 45 lec. (Offered as needed)
Principles and rules of traditional and modern English grammar and effective style.

LIS 1001
Library Skills, 1 credit hour, 30 lab. (Offered as needed)
A course creating learning situations in which individual students can become effective independent users of Learning Resources facilities. This course is recommended for all degree-seeking students in their first term.

LIS 2004
Introduction to Internet Research, 1 credit hour, 30 lab. (Offered as needed)
Introduction to Internet Research is a one-credit hour course offered by the Florida Public Community College system. This course is delivered via the World Wide Web and Internet e-mail. The course focuses on methods of accessing information resources available through the Internet. Students will learn to design search strategies, retrieve, evaluate, and cite Internet resources. The World Wide Web, e-mail, discussion groups, chat, FTP, Gopher, and Telnet are some of the topics covered. Prerequisite: A full service Internet account, including an electronic mail address from an Internet Service Provider (ISP), or access through a corporate or educational institution prior to beginning the course.

LIT 2090
Contemporary Literature, 3 credit hours, 45 lec. (Offered as needed)
Studies in modern drama, prose, and poetry, focusing on their comments on modern man. May be used as Humanities credit. Prerequisite: ENC 1101.

LIT 2100
World Literature, 3 credit hours, 45 lec. (Fall, Spring, Summer)
Designed to encourage students to know and appreciate something of the great literature which helps to mold their thinking and everyday living. To include, without regard to national origin, those masterpieces of the Western World which reflect their cultural and intellectual heritage. May be used as a Humanities credit. Prerequisite: ENC 1101.

MAC 1105
College Algebra, 3 credit hours, 45 lec. (Fall, Spring, Summer)
Function-based college algebra course which will include the following topics: functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Graphing calculators are required. Prerequisites: MAT 1033A “Intermediate Algebra” or equivalent with a “C” or better or suitable placement score.

MAC 1114
Trigonometry, 3 credit hours, 45 lec. (Fall, Spring, Summer)
Typical modern trigonometry course. Graphing calculators are required. Prerequisite: MAC 1140 with a grade of “C” or better, or equivalent.

MAC 1140
Pre-Calculus Algebra, 3 credit hours, 45 lec. (Fall, Spring, Summer)
First course in a two-course pre-calculus sequence. Covers equations and inequalities; linear, quadratic, and trigonometric functions, inverse functions, systems of equations, matrices and determinants mathematical proof techniques, including mathematical induction. Binomial theorem, sequences and series; and applications of algebraic techniques in the real world. Graphing calculators will be required. Prerequisite: Completion of MAC 1102 or MAC 1105 with a grade of “C” or better, or equivalent.

MAC 1147
Precalculus Algebra/Trigonometry, 4 credit hours, 60 lec. (Fall, Spring, Summer)
This course reviews algebra and trigonometry. Topics include polynomial, rational, exponential, logarithmic, and trigonometric functions, inverse functions, trigonometric identities and equations, solutions of triangles, vector algebra, topics from analytical geometry, sequences, series, mathematical induction and the binomial theorem. Graphing calculators are required. Prerequisite: High School trigonometry with a “B” or better.

MAC 1154
Analytic Geometry, 3 credit hours, 45 lec. (Offered as needed)
Typical modern analytic geometry course in two- and three-dimensional space. Prerequisite: Completion of MAC 1140 and MAC 1114 with a grade of C or better or equivalent.

Δ Technology-Across-the Curriculum Course

¶ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
MAC 2233
Calculus for Business, 3 credit hours, 45 lec. (Offered as needed)
A Calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Graphing calculators are required. Prerequisite: Grade of “C” or better in MAC 1105 or equivalent.

MAC 2311
Calculus I, 4 credit hours, 60 lec. (Fall, Spring, Summer)
First course in a three-course sequence. Covers limits and continuity, rules of differentiation, the chain rule, derivatives of trigonometric functions, derivatives of logarithmic functions, derivatives of exponential functions, derivatives of inverse trigonometric functions, applications of derivatives to curve sketching, L’Hospital’s Rule, indeterminate forms and maxima/minima problems, the mean value theorem, Rolle’s theorem, the definite and indefinite integrals and the Fundamental Theorem of Integral Calculus, area, and applications of integrals. Graphing calculators are required. Prerequisite: Completion of MAC 1140 and MAC 1114 or MAC 1147 with a grade of “C” or better, or equivalent.

MAC 2312
Calculus II, 4 credit hours, 60 lec. (Fall, Spring, Summer)
Second course in a three-course sequence. Techniques for finding areas, volumes, and lengths and surface areas; applications using first order differential equations; methods of integration including integration by parts, trigonometric substitution, and partial fractions; improper integrals, conic sections with rotation of coordinates; graphing and area in polar coordinates; infinite sequences and series; tests for absolute and conditional convergence of series; power series. Graphing calculators are required. Prerequisite: Completion of MAC 2311 with a grade of “C” or better or equivalent.

MAC 2313
Calculus III, 4 credit hours, 60 lec. (Fall, Spring, Summer)
Third course in a three-course sequence. Vectors and vector functions; dot product, cross product, curvature, and motion in space; quadric surfaces; functions of two or more variables, partial derivatives, gradients, directional derivatives, tangent lines and planes, and application of partial derivatives to maxima/minima; Lagrange multipliers, Taylor’s formula; multiple integrals in rectangular, cylindrical, and spherical coordinates, and their applications; line integrals; Green’s theorem, surface area, the divergence theorem and Stokes’s theorem. Graphing calculators are required. Prerequisite: Completion of MAC 2312 with a grade of “C” or better, or equivalent.

MAN 1161*
Customer Service, 3 credit hours, 45 lec. (Offered as needed)
Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

MAN 2021
Management, 3 credit hours, 45 lec. (Offered as needed)
Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

MAN 2300
Personnel Management, 3 credit hours, 45 lec. (Offered as needed)
An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

MAP 2302
Differential Equations, 3 credit hours, 45 lec. (Fall, Spring)
An introduction to ordinary differential equations with an emphasis on first and second order linear equations and applications. Prerequisite: Either completion of MAC 2312 or MAC 2313 with a “C” or better and concurrent enrollment in MAC 2313. Equivalent courses from other institutions may be used to meet the prerequisite.

MAR 2011
Introduction to Marketing, 3 credit hours, 45 lec. (Offered as needed)
An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

MAS 2103
Linear Algebra, 3 credit hours, 45 lec. (Offered as needed)
An introductory course in Linear Algebra intended to give students enough insight to enable successful pursuit of more abstract mathematics courses. Graphing calculators are required. Prerequisite: MAC 2311 with a grade of “C” or better, or equivalent.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
MAT 1033A
Intermediate Algebra, 4 credit hours, 60 lec. (Fall, Spring, Summer)
An intermediate algebra course to prepare students for general education mathematics/statistics courses. This course emphasizes concepts, techniques, and applications of the following major topics: factoring, algebraic functions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, two-variable linear equations/inequalities and their graphs, systems of linear equations and inequalities, and an introduction to functions. Prerequisite: suitable placement score or completion of MAT 0024 (or equivalent) with a grade of “C” or better and a passing score on the college prep algebra exit exam.

MAT 1930*
Special Topics in Math, 2 credit hours, 30 lec. (Offered as needed)
A course developed to upgrade basic academic skills through intensive individualized instruction. The course is designed for incoming college students to enhance their successful completion of college degree programs.

MAT 2905
Independent Study – Mathematics, 1 credit hour, 30 lab. (Fall, Spring, Summer)
A course designed to allow a student to complete part of a course taken elsewhere and thereby complete general education requirements or to go deeper into special areas of interest. Prerequisite: Passing score on placement exam.

MCB 2010C
Microbiology, Allied Health, 4 credit hours, 45 lec., 30 lab. (Fall, Spring, Summer)
This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

MCB 2013C
Microbiology, 4 credit hours, 30 lec., 60 lab. (Offered as needed)
A general survey of microbiology, the cultivation and observation of microorganisms and their chemical and biological relationships to water, food, industrial processes and disease. Prerequisite: BOT 1010C or ZOO 1010C and CHM 1045C.

MET 1010
Introduction to Meteorology, 4 credit hours, 60 lec. (Fall, Spring)
Structure of the atmosphere, weather processes, systems and phenomena; climate and climatic change, economic impact of weather.

MGF 1106
Mathematics for Liberal Arts, 3 credit hours, 45 lec. (Fall, Spring, Summer)
This course is designed for those students requiring only general education mathematics courses. It includes systematic counting, probability, statistics, and history of mathematics, geometry, sets and logic. Prerequisite: Completion of MAT 1033/1033A or higher mathematics course with a grade of “C” or better, or equivalent or suitable placement score.

MGF 1107
Mathematics for Liberal Arts II, 3 credit hours, 45 lec. (Fall, Spring, Summer)
This course is designed for those students requiring only general education mathematics courses. Topics include numeration and mathematical systems, number theory, linear and exponential growth, history of mathematics, voting techniques, graph theory, and consumer mathematics. Prerequisites: MAT 1033/1033A or higher level math with a grade of “C” or better or appropriate placement score.

MGF 2118
Math Preparation for CLAST, 1 credit hour, 15 lec. (Fall, Spring, Summer)
A short course dealing with mathematical skills needed for successful completion of coursework in a variety of disciplines. Prerequisite: Completion of a general education mathematics course.

MIS 1031
Introduction to Military Science, 1 credit hour, 15 lec., 15 lab. (Fall)
This course provides an understanding of the Army’s organization, customs and traditions including Army Basic Drill and Ceremonies, and the Army’s role in American society. Requires participation in a weekly one-hour leadership laboratory.

MIS 1620
Basic Leadership and Military Skills, 1 credit hour, 15 lec., 15 lab. (Spring)
This course studies and applies the principles of effective leadership. It supports individual leadership development in communicative skills and basic military skills to include: drill and ceremonies, map reading, land navigation, physical fitness and marksmanship. This course requires participation in a weekly one-hour leadership laboratory. Prerequisite: MIS 1031.

MIS 2400
Fundamentals of Leadership, 2 credit hours, 30 lec., 15 lab. (Fall)
This course provides a study of basic leadership techniques and principles, senior-subordinate relationships, leadership problems, basic counseling and management techniques; familiarization with basic weapons and communications within a U.S. Army infantry platoon; the advancement of individual leadership development in communicative skills and basic military skills. This course requires participation in a weekly one-hour leadership laboratory. Prerequisite: MIS 1620. Note: Placement credit may be offered for JROTC experience or previous military service.
MIS 2631
Application of Military Skills, 2 credit hours, 30 lec., 15 lab. (Spring)
This course teaches basic map reading and land navigation; theory and dynamics of the military team in tactical situations; and survival techniques in various environments. Practical exercises in land navigation, drill and ceremony, physical fitness training, counseling, and decision making form the leadership foundation training. Individuals lead and participate in advanced squad-level tactical training and small unit leadership. This course requires participation in a weekly one-hour leadership laboratory. Prerequisite: MIS 2400. Note: Placement credit may be offered for JROTC experience or previous military service.

MKA 2021*
Professional Selling, 3 credit hours, 45 lec. (Offered as needed)
Selling, correct attitudes and personal attributes for dealing with the public on a business or professional basis.

MKA 2041*
Retail Management, 3 credit hours, 45 lec. (Offered as needed)
Retail store management, location, buying merchandise, control policies, services, pricing, expenses, profits: training and supervision of retail sales forces, administrative problems. Also includes a variety of current perspectives in retailing management.

MKA 2511*
Introduction to Advertising, 3 credit hours, 45 lec. (Offered as needed)
Advertising as a marketing tool, its planning, creation, and use. A survey of copy writing, layout, and media (newspapers, magazines, radio, television, films, etc.)

MNA 1016*
ISO9000 – Industrial Management, 3 credit hours, 45 lec. (Offered as needed)
The course presents the functions of a manager, the views, techniques, and responsibilities of management. Included also are planning, forecasting, organizing, theory, staffing, and other related topics.

MNA 1345*
Supervision I, 3 credit hours, 45 lec. (Offered as needed)
The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socio-economic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

MNA 1346*
Supervision II, 3 credit hours, 45 lec. (Offered as needed)
The course presents a continuing study of the functions of a personnel manager, philosophy of general management, employee socio-economic climate and other information. Included, also, are orientation, training, labor unions, safety, health and other related topics.

MNA 2100*
Organizational Behavior, 3 credit hours, 45 lec. (Fall, Spring, Summer)
Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

MNA 2141
Leadership Techniques, 3 credit hours, 45 lec., (Offered as needed)
This interdisciplinary course addresses leadership in a group setting and focuses on leadership development through discussion, readings, group and individual projects and other applied activities.

MNA 2141A
Interdisciplinary Leadership Development, 3 credit hours, 45 lec., (Offered as needed)
This course is designed to provide emerging and existing leaders the opportunity to explore the concept of leadership and to develop and improve their leadership skills. The course integrates readings from history, natural science and the humanities, experiential exercises, films, and contemporary readings on leadership and related topics.

MTB 1103*
Business Mathematics, 3 credit hours, 45 lec. (Fall, Spring, Summer)
Presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include: base, rate and percentage; trade and cash discounts, wage and salary administration; insurance (fire and automobile); depreciation and business profits; distribution of corporate dividends; simple interest and bank discount and buying and selling of corporation bonds and stocks.

MTB 1321*
Technical Math I, 3 credit hours, 45 lec. (Offered as needed)
This course will include a basic arithmetic and algebraic operations, converting between scientific and engineering notations; solving linear equations and inequalities, converting units of measure, using linear equations to solve problems in science and technology applications, and solving geometry applications by geometry of triangle concepts. Prerequisite: MAT 0024 with a grade of "C" or better, or appropriate test scores.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
MTB 1322*
Technical Math II, 3 credit hours, 45 lec. (Offered as needed)
This course will include solving linear and quadratic equations, solving systems of linear equations, solving trigonometric right triangle applications, graphing linear, quadratic, and trigonometric functions, computation of complex numbers, vectors, and phasors, conversion of rectangular and polar coordinates, and converting between binary and decimal systems. Prerequisite: MTB 1321 with a grade of “C” or better.

MUH 1011†
Humanities – Music, 3 credit hours, 45 lec. (Offered as needed)
Designed to develop a more intelligent understanding and appreciation of music. Brings about an awareness of music as a vital source in human life, including the advantageous utilization of leisure time and developing positive attitudes toward culture and the fine arts.

MUM 2300
Introduction to the Music Industry, 3 credit hours, 45 lec. (Fall, Spring, Summer)
This course is as an introduction to the history, principles, and practices of the music industry. Topics will include music publishing, copyright, distribution, industry organization, producing, and general business functions.

MUM 2600
Recording Techniques I, 3 credit hours, 30 lecture, 30 lab. (Fall, Spring, Summer)
This course is designed as an introduction to basic audio engineering and studio practices. Listening exercises, psychoacoustics, microphone characteristics, and studio etiquette will be studied. In addition the student will study techniques and practices and procedures of multi-track recording, acoustical balancing, editing, and over dubbing in a variety of situations.

MUM 2600L
Recording Lab, 2 credit hour, 30 lab. (Fall, Summer, Spring)
This course is designed to provide students with “hands on” experience in conjunction with live performance activities. This course may be taken three (3) times for credit.

MUM 2601
Recording Techniques II, 3 credit hours, 30 lecture, 30 lab. (Fall, Spring, Summer)
This course explores advanced multi-track recording skills and audio production techniques, edits, use of outboard equipment and live multi-track recording. Prerequisite: MUM 2600; corequisite: MUM 2600L.

MUM 2604
Multi-Track Mixdown (Post Production), 3 credit hours, 30 lecture, 30 lab. (Fall, Spring, Summer)
This course explores the application of signal processing equipment as it relates to multi-track master mixdowns. In addition, software and hardware application of mixdown is applied to post-production practices. Prerequisite: MUM 2601; corequisite: MUM 2600L.

MUN 1000
Summer Ensemble Workshop, 3 credit hours, 15 lec., 60 lab. (Summer)
An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop will be expected to participate in several scheduled performances. Prerequisite: experience in high school or a desire to learn.

MUN 1001
Summer Ensemble Workshop II, 3 credit hours, 15 lec., 60 lab. (Summer)
An ensemble workshop and performance to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop II will be expected to participate in several scheduled performances. Prerequisite: MUN 1000.

MUN 1002
Summer Ensemble Workshop III, 3 credit hours, 15 lec., 60 lab. (Summer)
An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop III will be expected to participate in several scheduled performances. Prerequisite: MUN 1001.

MUN 1180
OWCC Band (Community), 1 credit hour, 30 lab. (Offered as needed)
A music organization providing an outlet and learning experience for both college students and wind or percussion players to read and perform standard band literature, transcriptions and program selections. Required of all wind or percussion music majors and minors. May be taken four times (4) for credit. Prerequisites: Ability to read music and play a band instrument. Audition by Director or 1 year experience in a high school advanced band.

MUN 1210
OWCC Symphony Orchestra I, 1 credit hour, 45 lab. (Fall, Spring)
A music organization providing an outlet and learning experience to study and perform standard orchestra literature, to improve individual instrumental skills, and to sharpen ensemble techniques. The Symphony occasionally performs with guest artists, choral groups and theatre ensembles. This course may be taken four (4) times for credit. Prerequisite: experience in orchestra or symphonic band.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.
MUN 1310
OWCC Chorus I, 1 credit hour, 30 lab. (Offered as needed)
A music organization open through auditions to any student having experience in reading music. A variety of musical styles will be studied and performed. Students electing OWCC Chorus will be expected to participate in scheduled performances. MUN1310 may be taken four times for credit. Prerequisite: Experience in high school choruses or choirs.

MUN 1340A
OWCC Show Choir I, 1 credit hour, 45 lab. (Fall, Spring)
A study of the fundamental techniques and principles of integrating dance, voice, music and acting into a performance show choir. Training in voice, jazz movement, character interpretation and personality presentation is covered. Membership is open to all part-time or full-time students on a credit or audit basis. All music majors and performance majors must participate. The show choir appears in public performances at frequent intervals throughout the year. Prerequisite: Audition, consent of Department, music or performance minor. This course may be taken four (4) times for credit.

MUN 1360
Madrigal Singers I, 1 credit hour, 45 lab. (Offered Fall, Spring)
A music organization open through auditions to any student. The Symphonic chorus will study and perform literature for the large sized chorus. Prerequisite: Audition or permission of instructor. May be taken up to four (4) times for credit. Prerequisites: audition based on vocal quality, musicianship and sight reading ability.

MUN 1390
Symphonic Chorus I, 1 credit hour, 45 lab. (Fall, Spring)
A music organization open through auditions to any student. The Symphonic chorus will study and perform literature for the large sized chorus. Prerequisite: Audition or permission of instructor. May be taken up to four (4) times for credit.

MUN 1421
Flute Ensemble, 1 credit hour, 30 contact, 30 lab. (Fall, Spring)
The study and performance of flute ensemble and flute choir music in a musical group. May be taken four (4) times for credit. Prerequisites: audition or instructor recommendation only.

MUN 1700
Jazz/Rock Laboratory, 1 credit hour, 30 lab. (Fall, Spring)
A music organization open through auditions to any student. The Jazz/Rock Laboratory Ensemble will study and perform literature for the large sized jazz band. Prerequisite: Audition or permission of instructor. May be taken four (4) times for credit. Prerequisite: strong music performance background.
MUN 2371
OWCC Show Choir II, 1 credit hour, 45 lab. (Fall, Spring)
A study of the fundamental techniques and principles of integrating dance, voice, music and acting into a performance show choir. Training in voice, jazz movement, character interpretation and personality presentation is covered. Membership is open to all part-time or fulltime students on a credit or audit basis. All music majors and performance majors must participate. The show choir appears in public performances at frequent intervals throughout the year. Prerequisite: MUN 1340A, Show Choir I. This course may be taken four (4) times for credit.

MUN 2392
Symphonic Chorus II, 1 credit hour, 45 lab. (Fall, Spring)
A music organization open through auditions to any student. The Symphony Chorus will study and perform literature for the large sized chorus. This course may be taken up to four (4) times for credit. Prerequisite: MUT 1121.

MUS 1905
Independent Study – Music, 1 credit hour (Offered as needed)
A defined independent study which is pursued under supervision of a faculty directing teacher and recorded through departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized or advanced nature and not available through classes or courses available on a college schedule. Departmental approval required. If this course is used to meet Gordon Rule requirements, a writing assignment of 1000-6000 words may be required. This course may be taken four (4) times for credit.

MUT 1001
Fundamentals of Music, 3 credit hours, 45 lec. (Fall, Spring)
A pre-theory course for the nonmusic major, or for the elementary education major. Included are the studies of reading clefs, rhythm, notation, scales, and doing simple keyboard and sight-singing exercises. The emphasis is on developing music reading skills.

MUT 1121
Music Theory I/Ear Training and Sight Singing, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
A study of the fundamentals of basic musicianship, music notation, understanding of simple rhythms, key situations, intervals, ear training, dictation, sightsinging, major and minor scales, intervals, triads, chords, polyphonic composition and elementary keyboard work. Prerequisite: Students wishing to take Music Theory I should have a strong background in music (high school chorus, bands, etc.).

MUT 1122
Music Theory II/Ear Training and Sight Singing, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
A continuation of MUT 1121. Basic musicianship, writing and reading of music, ear training, dictation, sightsinging will be studied, as well as major and minor scales, intervals, triads, seventh chords, inversions, cadences, periods and progressions in all keys. Two, three and four part chords and polyphonic composition. Prerequisite: MUT 1121.

MUT 1641
Jazz Improvisation I, 2 credit hours, 15 lec., 30 lab. (Fall, Spring)
A course designed to introduce the student to the concepts of Jazz Improvisation. Through active participation the student will develop the basic skills necessary to become a competent jazz soloist. This course may be taken two (2) times for credit. Prerequisite: MUT 1121.

MUT 2126
Music Theory III/Ear Training and Sight Singing, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
A continuation of MUT 1121 and MUT 1122. The harmonization and modulation of melodies through the use of nondominant harmony and the study of sequence writing. Incorporates keyboard harmony plus sight reading of chromatic melodies, large intervals, and advanced rhythms. Prerequisite: MUT 1122.

MUT 2127
Music Theory IV/Ear Training and Sight Singing, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
The continued study of harmonization of melodies, sequence writing, sight reading, intervals, advanced rhythms and structures. Prerequisites: MUT 2126.

MUT 2351
Introduction to Jazz Theory/Arranging, 3 credit hours, 45 lec. (Offered as needed)
A lecture-demonstration-workshop, approach to jazz/pop arranging open to any student who wants to begin or understand composing/arranging. Studies include jazz/pop harmonies, arranging fundamentals and techniques, and the use of jazz/pop instrumentation. Workshop practices include assigned arrangements with the arrangements played by the jazz ensemble, and other audio demonstrations. Prerequisite: MUT 1122.

MUT 2642
Jazz Improvisation II, 2 credit hours, 45 lec., 30 lab. (Fall, Spring)
A continuation of MUT 1641 Jazz Improvisation I. This course is designed to further develop the skills needed to become a competent soloist in the jazz idiom. This course may be taken two (2) times for credit. Prerequisite: MUT 1641.

MVB 1201
Applied Music Secondary – Brass I, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction: 1/2 hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors. Course may be taken four (4) times for credit.

Δ Technology-Across-the Curriculum Course
MVB 2202
Applied Music Secondary – Brass II, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction: 1/2 hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors. Course may be taken four (4) times for credit. Prerequisite: MVB 1201.

MVK 1211
Applied Music – Piano I, 1 credit hour, 7.5 lab. (Fall, Spring, Summer)
Private instruction in piano, as secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required. Course may be taken four (4) times for credit.

MVK 2221
Applied Music – Piano II, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction in piano, as a secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required. Course may be taken four (4) times for credit. Prerequisite: MVK 1211.

MVP 1201
Applied Music Secondary – Percussion I, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction in percussion instruments to develop the student’s performance ability in an applied area. One half-hour private lesson per week. Minimum of one hour daily practice. Course may be repeated four (4) times for credit. Prerequisite: MVP 1201.

MVP 2202
Applied Music Secondary – Percussion II, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction in percussion instruments to develop the student’s performance ability in an applied area. One half-hour private lesson per week. Minimum of one hour daily practice. Course may be repeated four (4) times for credit. Prerequisite: MVP 1201.

MVS 1016
Applied Strings – Guitar I, 1 credit hour, 7.5 lab. (Fall, Spring, Summer)
Private instruction on guitar. Designed to equip the student for continuing study leading progressively to greater proficiency. May be taken four (4) times for credit.

MVS 1017
Applied Strings – Bass Guitar I, 1 credit hour, 7.5 lab. (Fall, Spring, Summer)
Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency. May be taken four (4) times for credit.

MVS 1111
Class Guitar, 1 credit hour, 15 lec. (Fall)
The study of basic techniques for the beginning and continuing student.

MVS 1201
Applied Music Secondary – Strings I, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors. Course may be taken four (4) times for credit.

MVS 2026
Applied Strings – Guitar II, 1 credit hour, 7.5 lab. (Fall, Spring, Summer)
Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency. May be taken four times for credit. Prerequisite: MVS 1016.

MVS 2027
Applied Strings – Bass Guitar II, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency. May be taken four times for credit. Prerequisite: MVS 1017.

MVS 2202
Applied Music Secondary – Strings II, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors. Course may be taken four (4) times for credit. Prerequisite: MVS 1201.

MVV 1211
Applied Music – Voice I, 1 credit hour, 7.5 lab. (Fall, Spring, Summer)
Private instruction in voice, as a secondary instrument, consisting of one half-hour session per week, with a minimum of one hour daily practice. Course may be taken four times for credit.

MVV 2221
Applied Music – Voice II, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction in voice, as a secondary instrument, consisting of one half-hour session per week, with a minimum of one hour daily practice. Course may be taken four times for credit. Prerequisite: MVV 1211.

MVW 1201
Applied Music Secondary – Woodwinds I, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors. Course may be taken four (4) times for credit.

MVW 2202
Applied Music Secondary – Woodwinds II, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors. Course may be taken four (4) times for credit. Prerequisite: MVW 1201.
NUR 1105
Nursing Process I, 6 credit hours, 90 lec. (Fall)
This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psychosocial sciences in the first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to the healthcare system; ethical-legal aspects of nursing practice; health and illness; functional health patterns of clients; stress-adaptation; professional behaviors (e.g., caring behaviors); communications and all steps of the nursing process with emphasis on assessment of clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary health care team. Six hours weekly. Prerequisite: Admission to the Nursing Program or permission of the Director of Nursing. Co-requisites: BSC 1085C or BSC 1086C, DEP 2004.

NUR 1105C
Nursing Process I Clinical Experience, 4 credit hours, 180 clin. (Fall)
An introduction to the role of the associate degree nurse in providing direct, holistic nursing care to young, middle-aged and elderly adults who are hospitalized or receiving care in community settings. Emphasis is on applying all steps of the nursing process with focus on assessment skills. Critical thinking is an expected behavior along with skills in working effectively with peers and other health care professionals as a team member; demonstrate caring behaviors and therapeutic communication with clients as a provider of bedside, technical nursing care. The student is expected to demonstrate safe performance of basic nursing skills, eg., medication administration, physical assessment and comfort care, 12 hours weekly. Prerequisite: Admission to the Nursing Program or permission of the Director of Nursing. Co-requisite: NUR 1105

NUR 1235
Nursing Process II, 5 credit hours, 75 lec. (Spring)
The nursing process continues with emphasis on the planning of nursing care for adult clients experiencing threats to functional health patterns, including women and infants within a significant support system (e.g., families). Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and elderly clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Professional behaviors, (e.g., therapeutic relationships) continue with students working with the elderly client through the life review process and with clients in crises. Students further develop critical thinking skills through seminars planned to provide students with problem-solving skills in analyzing, planning & prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief & loss. Students learn basic management skills as a team member in caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate. Five hours weekly. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1105, NUR 1105C, BSC 1085C or BSC 1086C. Co-requisites: NUR 1235C, NUR 1251C, MCB 2010C, SYG 2000, BSC 1086C.

NUR 1235C
Nursing Process II Clinical Experience, 4 credit hours, 180 clin. (Spring)
Continuation of the role of the associate degree nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, long term facilities and community settings provide students with opportunities to plan, prioritize and begin to evaluate the effectiveness of bedside nursing care of adult perioperative clients, elderly clients who benefit from a life review process, newborns and other clients experiencing situational and/or maturational crises. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills. 15 hours weekly. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1105, NUR 1105C; BSC 1085C or BSC 1086C. Co-requisites: NUR 1235, NUR 1251C, MCB 2010C, SYG 2000, BSC 1086C.

NUR 1251C
Pharmacologic Principles in Nursing, 1 credit hour, 15 lec. (Spring)
This course provides an introduction to concepts and principles of pharmacology related to safe administration of therapeutic agents by the nurse. Students learn major drug classifications and selected prototypes along with principles of safe, effective administration of drugs and other therapeutic agents. By the end of the course, students must apply computation skills to demonstrate administration of drugs without error in order to successfully pass the course and progress in the nursing program. One hour weekly. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1105, NUR 1105C; BSC 1085C or BSC 1086C. Co-requisites: NUR 1235, NUR 1235C; MCB 2010C, SYG 2000.

NUR 1305
Orientation to AD Nursing, 4 credit hours, 60 lec. (Summer)
This course is designed for LPNs and other special students an opportunity for advanced placement in the nursing program via reviewing and validating prior learning. Course content includes review of functional health patterns of the childbearing adult, selected topics related to acute care of hospitalized adults, the geriatric client and the newborn; the nursing process, holistic care planning and pharmacologic principles of nursing. Critical thinking is stressed as students transition into the associate degree nursing student role. Five hours weekly. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, BSC 1085C, BSC 1086C, HUN 2201, SYG 2000, ENC 1101, DEP 2004 and LPN Licensure or equivalent education. Co-requisites: MCB 2010C, NUR 1305C.
NUR 1305C
Orientation to AD Nursing Clinical Experience, 2
credit hours, 90 clin. (Summer)

This course is designed for LPNs and other special
students an opportunity for advanced placement in the
nursing program via reviewing and validating prior
learning. Students will learn physical assessment
skills, holistic care planning and demonstrate nursing
skills at the bedside of clients in acute care settings,
i.e., the perioperative client, the obstetrical client
and newborn. Critical thinking is stressed as students
transition into the associate degree nursing student role.
Successful completion of this course will allow the
student to progress to the second year of the nursing pro-
gram. Nine hours weekly. Prerequisites: Admission to
the Nursing Program or permission of the Director of

NUR 1333C
Nursing Clinical Externship, 3 credit hours, 126 clin.
(Summer)

This elective course is designed to offer students the
opportunity to gain additional clinical skills practice
between the first and second year of the program.
Working with a preceptor and the nursing faculty, the
student will be able to perform all skills learned in the
first two nursing courses in area hospitals, clinics or
nursing homes as arranged by the instructor. 36 hours
weekly for six (6) weeks. Prerequisites: Admission to
the Nursing Program or permission of the Director of
Nursing, NUR 1235/NUR 1235C; NUR 1251C.

NUR 2166
Nursing Process III, 6 credit hours, 90 Lec. (Offered
Fall)

Students transfer knowledge of the biophysical and
psychosocial sciences and critical thinking in caring
for adults and children whose health problems are
more complex and/or chronic. Students gain profi-
ciency in assessment and planning nursing care for a
limited number of clients and their significant support
persons. Professional behaviors include health teaching
and referral of clients to community health resources.
Six hours weekly. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1235. Co-requisite: NUR 2166C.

NUR 2166C
Nursing Process III Clinical Experience, 4 credit
hours, 180 lab. (Offered Fall)

Students continue to apply knowledge and skills
learned in previous nursing courses in providing nurs-
care for hospitalized adults and children whose
health problems are more complex and/or chronic.
Clinical sites include health departments, clinics,
physician offices, schools and other community set-
tings. Students adapt therapeutic skills to meet the
needs of clients experiencing psycho-emotional dys-
functions to the extent that they may be hospitalized.
Students apply conflict resolution skills as needed to
meet client and/or peer learning goals; they also begin
to practice delegation skills with their peers. Students
demonstrate continuation of all previously learned
nursing skills and must perform safely all advanced
nursing skills in this course. 12 hours weekly.
Prerequisites: Admission to the Nursing Program or
permission of the Director of Nursing, NUR 1235. Co-
require: NUR 2166.

NUR 2276
Nursing Process IV, 5 credit hours, 75 lec. (Offered
Spring)

Students integrate knowledge and principles of the
biophysical and psychosocial sciences to solve life-
threatening problems that affect a limited number of
critically ill clients in a variety of clinical settings.
Students differentiate holistic nursing care therapies in
primary, secondary and tertiary care settings. Students
become proficient in applying all steps in the
nursing process with emphasis on evaluating nursing
care outcomes. Students apply critical thinking skills in
exploring case-based practice situation and work
together in learning seminars to select effective client
management of care skills in preparation for their 4-
week clinical practicum prior to graduation from the
program. Students will shadow a home health/hospice
nurse in observing treatment and palliative care of
adults and children. Other clinical experiences will
include experiences in long-term care and rehabilita-
tion facilities. Students must demonstrate competency
in all behaviors required for an associate degree
graduate. 12 hours weekly or 11 weeks. Prerequisites:
Admission to the Nursing Program or permission of
the Director of Nursing, NUR 2166. Co-require: NUR
2276C.

NUR 2276C
Nursing Process IV Clinical Experience, 4 credit
hours, 132 lab. (Offered Spring)

Students apply knowledge and principles of the bio-
physical and psychosocial sciences to assess, plan,
implement and evaluate holistic nursing care of criti-
cally ill adults in hospitals, nursing homes, ambulatory
care settings, and the home. Students will expand on
management of care skills in preparation for their 4-
week clinical practicum prior to graduation from the
program. Students will shadow a home health/hospice
nurse in observing treatment and palliative care of
adults and children. Students will expand on manage-
ment of care skills in preparation for their 4-
week clinical practicum prior to graduation from the
program. Students will shadow a home health/hospice
nurse in observing treatment and palliative care of
adults and children. Other clinical experiences will
include experiences in long-term care and rehabilita-
tion facilities. Students must demonstrate competency
in all behaviors required for an associate degree
graduate. 12 hours weekly or 11 weeks. Prerequisites:
Admission to the Nursing Program or permission of
the Director of Nursing, NUR 2166. Co-require: NUR
2276.
NUR 2283C
Nursing Clinical Practicum, 3 credit hours, 144 lab. (Offered Spring)
This mini-course provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as associate degree nurses. Students work with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients with potentially life threatening health problems. Clinical experiences may take place in a variety of clinical settings and work schedules. Students develop team-leading skills in the clinical setting, delegating and evaluating aspects of care to other health team members. Focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. 36 hours per week for four weeks. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 2276C.

NUR 2291L
Nursing Practice Readiness, 1 credit hour, 30 lab. (Offered Spring)
This one-hour elective laboratory course assists the nursing student to prepare for the RN licensure examination. Web-based instructional methodologies allow the student to complete the course within a self-paced time frame. Students practice test taking skills, use self-evaluation and other strategies to gain confidence in sitting for the NCLEX-RN. Two hours weekly. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 2276 or permission from nursing program director. Co-requisite: NUR 2283C.

OCE 1005C
Introduction to Oceanography, 4 credit hours, 45 lec., 30 lab. (Fall, Spring)
A survey of the physics, chemistry, geology and biology of the oceans. Interrelationships between the atmosphere and oceans, methods of measurement and research, processes of coastal change and marine conservation. May be used to satisfy A.A. requirements in physical science for career goals other than the sciences, engineering, and pre-professional health care.

ORI 2000
Oral Interpretation, 3 credit hours, 45 lec. (Offered as needed)
Oral interpretation of all genres of literature. Students read and research appropriate literature to cut, adapt, and present to the class as solo, duet, and group interpretations.

OST 1107 ∆
Typing and Word Processing, 3 credit hours, 45 lec. (Offered as needed)
Integration of basic keyboarding and word processing – learning the keyboard, creating, editing, saving, and other word processing functions.

OST 1131* ∆
Legal Word Processing, 3 credit hours, 75 lab. (Offered as needed)
Thorough analysis and formatting of legal documents.

OST 1355*
Records Management, 3 credit hours, 45 lec., (Offered as needed)
Methods and systems of filing used in business offices, filing equipment, and time-and-motion skills. Filing practice sets are used.

OST 2117 ∆
Typing and Word Processing II, 3 credit hours, 45 lec. (Offered as needed)
Continuation of Typing and Word Processing I – develop keyboarding and document processing using a microcomputer. Prerequisite: OST 1107 or equivalent.

OST 2127* ∆
Typing and Word Processing III, 3 credit hours, 45 lec. (Offered as needed)
Development of occupational proficiency in business letter writing, legal papers, executive forms and papers, and manuscripts through the use of a word processor. Prerequisite: OST 2117 or equivalent.

OST 2335
Business Communications, 3 credit hours, 45 contact hours, 3 lec. (Offered as needed)
Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters. Prerequisites: passing score on English placement test or passing grade of “C” in ENC 0080.

OST 2401*
General Office Management, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
Study of practices and procedures in the modern office. Emphasis on exercising judgment, handling incoming calls and callers, processing mail, word processing systems, editing and composing techniques, travel arrangements, banking procedures, employment applications and resumes. Prerequisite: OST 2117.

PCB 2011C
Cell Biology, 4 credit hours, 45 lec., 45 lab. (Fall, Spring, Summer)
A study of the cell as the structural and functional unit of living organisms. To include the ultrastructure and biochemical aspects of the cell. Prerequisite: One year of High School chemistry.
PEL 1121
Beginning Golf, 1 credit hour, 30 lab. (Offered as needed)
Instruction in the fundamental technique and the development of personal skills through participation.

PEL 1212
Advanced Softball, 1 credit hour, 30 lab. (Offered as needed)
Instruction, practice, and participation in advanced softball. The continuous development of physical skills is of major importance in this course. May be taken four (4) times for credit. (Athletes)

PEL 1217
Advanced Baseball, 1 credit hour, 30 lab. (Offered as needed)
Instruction, practice, and participation in advanced baseball. The continuous development of physical skills is of major importance in this course. May be taken four (4) times for credit. (Athletes)

PEL 1321
Volleyball, 1 credit hour, 30 lab. (Offered as needed)
Instruction and practice in the basic skills for full participation and enjoyment of the game of volleyball.

PEL 1341
Beginning Tennis, 1 credit hour, 30 lab. (Offered as needed)
The history of tennis, the fundamental techniques and the development of personal skills through participation.

PEL 1441
Beginning Racquetball, 1 credit hour, 30 lab. (Offered as needed)
Instruction and participation in the skills necessary for satisfactory competition in the sport of racquetball.

PEL 1622M
Advanced Basketball (Men), 1 credit hour, 30 lab. (Offered as needed)
This course is a high intensity, drill-oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course. May be taken up to four (4) times for credit.

PEL 1622W
Advanced Basketball (Women), 1 credit hour, 30 lab. (Offered as needed)
This course is a high intensity, drill oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course. May be taken up to four (4) times for credit.

PEL 1905
Independent Study – Physical Education, 1 credit hour, 30 lab. (Fall, Spring, Summer)
Directed study and/or individual projects designed to meet the needs and interests of students in a specialized area of health, physical education and recreation, for which present course availability is limited. May be taken up to four (4) times for credit.

PEL 2442
Intermediate Racquetball, 1 credit hour, 30 lab. (Offered as needed)
A continuation of skills learned in beginning racquetball with emphasis on more advanced skills and techniques. Particular emphasis is placed on the strategy of the game. Prerequisites: PEL 1441 or permission of instructor.

PEL 2905
Directed Work Study – Physical Education, 1 credit hour, 45 lab. (Offered as needed)
Directed experience in instructional, laboratory and/or materials assistance in a designated Physical Education area. Entry by permission of department chair only. May be taken up to four (4) times for credit.

PEM 1104
Body Conditioning, 2 credit hours, 15 lec., 30 lab. (Fall, Spring, & Summer)
An in-depth and advanced continuation of the exercise component of HLP 1081. Using progressive goal setting techniques, the course is designed to assist the student in the development of a regular, systemized program of exercise into their daily life-style. Initially, the students' health and fitness levels are evaluated; progress of their personal exercise prescriptions monitored, and followed with a reevaluation at the termination of the course. Prerequisite: HLP 1081. May be taken up to two (2) times for credit.

PEM 1131A
Strength Training, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
This course is a high intensity lecture/demonstration and flexible lab hour weight training program designed to increase the size, strength, and endurance of the skeletal muscle system. Instruction includes, but is not limited to, weight training safety, etiquette, history, and nutrition. Instruction will be given in the design of progressive resistance programs to increase total body efficiency and to meet the objectives of the individual student. Students are responsible for determining fitness for training, and those with medical problems which restrict personal activities are encouraged to obtain medical clearance before enrolling in the course.