HME 1200
Home Management I, 1 credit hour, 15 lec. (Offered as needed)
Basic course in managing the home as related to individual and family activities; includes principles of positive interaction of family members as well as time and energy management applied to housekeeping tasks of providing and maintaining food, shelter, and clothing, and good communication for family members.

HSC 1100
Health Education, 3 credit hours, 45 lec. (Offered as needed)
A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

HSC 1400
First Aid, 3 credit hours, 45 lec. (Offered as needed)
Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured, oral poisoning and other medical emergencies.

HSC 1531
Medical Terminology, 3 credit hours, 45 lec. (Offered as needed)
An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

HUM 1020
Humanities – Introduction, 3 credit hours, 45 lec. (Offered as needed)
Techniques, forms, and basic evaluative tools related to music, the visual arts, poetry, drama, the dance, film, and philosophy. Art works are utilized as much as possible with examples relating to contemporary culture.

HUM 1905
Independent Study – Arts and Humanities, 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 nonscheduled 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. The student must obtain proper division approval prior to commencing the independent study.

NOTE: If this course is used to satisfy writing requirements for transfer courses to OWCC, a 6,000 word paper with a minimum grade of “C” is required. This course may be taken up to four (4) times for credit.

HUM 2700
Humanities – Foreign Study, 3 credit hours, 15 lec., 60 lab. (Offered as needed)
A variable humanities content course designed to allow students first-hand learning experiences outside the United States.

HUM 2905
Directed Work Study – Art Humanities, 1 credit hour, 45 hours (Offered as needed)
Directed experience in instructional, laboratory and/or materials assistance in a designated Arts-Humanities area. This course may be taken up to four (4) times for credit.

HUM 2906
Tutorial – Arts and Humanities, 1 credit hour, 30 lab. (Offered as needed)
An experience in individual depth study in which one student prepares for and engages in tutoring another for two class periods per week.

HUM 2920
Humanities Colloquium – 1 credit hour, 5 lec., 20 lab. (Offered as needed)
Humanities Colloquium is a lab designed to introduce students to critical visual and listening skills to become an intelligent arts consumer. Initial lecture sessions are devoted to discussions of the elements of analysis of art works, music pieces, theatre performances, and dance presentations. Students will be required to attend selected OWCC Visual and Performance Arts presentations and to write a short critical review of each. Topics may vary.

HUM 2410A
Child Nutrition and Health, 3 credit hours, 45 lec. (Offered as needed)
Methods of meeting physical needs of young children through nutrition and good health practices. Recognition of childhood diseases and care of the handicapped child.

HUM 2201
Nutrition, 3 credit hours, 45 lec. (Fall, Spring, Summer)
The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

HUS 1400A
Peer Advising, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
A course in techniques of peer advising focusing on communication skills, professional ethics, and knowledge of community resources for referral purposes; to be used under professional supervision in human service agencies and organizations.
INR 1065
War and Civilization, 3 credit hours, 45 lec. (Offered as needed)
An analytical and historical study of warfare from its earliest beginnings to the present day stressing the impact of war on the social, economic, and political structure of civilization.

INR 2002
Current World Problems, 3 credit hours, 45 lec. (Summer)
Critical world issues and immediate troubled areas against a historical, political, economic, and social background as an introduction to international relations. The individual student develops a special area of interest to explore in-depth the principles of international relations after their instruction.

INR 2270
Study Abroad – Introduction to International Studies, 3 credit hours, 30 lec., 45 lab. (Offered as needed)
A variable content course designed to allow students first-hand learning experiences around the world. Initial classroom hours on campus will give students general background information on the country(ies) to be visited. Foreign countries become, in effect, laboratories. Students will gain a broader vision of world societies through exposure to foreign culture, political, economic systems. Provides a broad overview of major nations and how they relate to each other as well as their impact on the international balance of power.

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.

ISS 2905
Directed Work Study – Social Science, 1 credit hour, 45 hours (Offered as needed)
Entry by permission of department chair only. This course may be taken up to four (4) times for credit.

JOU 1100
Journalism I, 3 credit hours, 15 lec., 30 lab. (Offered as needed)
Teaches the basics of straight news story writing, photography, copy preparation, editing, layout, and design of publications with an emphasis on newspapers and magazines. Prerequisite: High School English and typing preferable.

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.

LIS 2002
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.

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.

MAC 1105
College Algebra, 3 credit hours, 45 lec. (Fall, Spring, Summer)
Function-based college algebra course which will include the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on 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). Graphic 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. Prerequisite: MAC 1140 with a grade of “C” or better, or equivalent. Graphing Calculators are required.

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, logarithmic and exponential functions and relations; 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. Prerequisite: Completion of MAC 1102 or MAC 1105 with a grade of “C” or better, or equivalent. Graphing calculators will be required.

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. Graphic 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.

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, applications of derivatives to curve sketching, and maxima/minima problems, the mean value theorem and L'Hopital's rules, the definite and indefinite integrals and the fundamental Theorem of Integral Calculus, area, volume, hydrostatic force, center of mass and other applications of integrals. Prerequisite: Completion of MAC 1140 and MAC 1114 or MAC 1147 with a grade of “C” or better, or equivalent. Graphing Calculators are required.

MAC 2312
Calculus II, 4 credit hours, 60 lec. (Fall, Spring, Summer)
Second course in a three-course sequence. Inverse trigonometric functions; natural logarithms and exponential functions; methods of integration including integration by parts, trigonometric substitution, and partial fractions; conic sections with rotation of coordinates; hyperbolic functions; graphing an area in polar coordinates; infinite sequences and series; tests for absolute and conditional convergence of series; power series. Prerequisite: Completion of MAC 2311 with a grade of “C” or equivalent. Graphing Calculators are required.

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 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. Prerequisite: Completion of MAC 2312 with a grade of “C” or better, or equivalent. Graphing Calculators are required.

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. Prerequisite: Grade of “C” or better in MAC 1105 or equivalent. Graphing calculators are required.

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.
MAN 2905
Independent Study – Business, 1 credit hour, 15 lec., 30 lab. (Fall Spring, Summer)
Directed study and individual projects designed to meet the needs of students interested in specialized areas of business for which present course availability is limited. Areas of study can also be supplemented to present business courses for special emphasis or depth. May be taken up to four (4) times for credit.

MAN 2940
Directed Work Study – Business, 1 credit hour, 45 lab. (Fall, Spring, Summer)
Directed experience in instructional, laboratory and/or materials assistance in a designated business area. May be taken up to four (4) times for credit.

MAP 2302
Differential Equations, 3 credit hours, 45 lec. (Fall, Spring)
An introduction to ordinary differential equations with emphasis on first and second order linear equations and applications. Prerequisite: Either completion of MAC 2313 with a “C” or better or completion of MAC 2312 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. (Fall, Spring)
Designed for mathematics and engineering majors. An introductory course in linear algebra intended to give students enough insight to enable successful pursuit of more abstract math courses. Prerequisite: MAC 2311 with a grade of “C” or better, or equivalent. Graphing Calculators are required.

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 fractions, 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 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 Mathematics, 2 credit hours, 30 lec. (Offered Summer only)
Through an intensive individualized instructional program, this course will upgrade basic academic skills of incoming student to promote their successful completion of college degree programs.

MAT 2905
Independent Study – Mathematics, 1 credit hour, 30 lab. (Fall, Spring, Summer)
Course designed to allow student to complete additional general education math credit to satisfy deficiency in transfer work or to permit student to pursue special math topic(s) in depth.

MCB 1000C
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 accepted as satisfying requirements for majors in biology, premmed, prevet, and predentistry.

MCB 2013C
Microbiology, 4 credit hours, 30 lec., 60 lab. (Offered as needed)
A fundamental course in microbiology designed to fulfill the needs of pre-med., nursing and pharmacy students as well as science majors. A general survey of microbiology, the cultivation and observation of microorganism and their chemical and biological relationships to water, food, industrial processes and disease. Prerequisites: BOT 1010C, ZOO 1010C, and CHM 1045C (May be taken concurrently).

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, 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)  
A course 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. May be taken before or after  
MGF 1106. 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.

MKA 1610*  
Industrial Marketing, 3 credit hours, 45 lec. (Offered  
as needed)  
The course presents the fundamental principles of  
marketing and explains marketing concepts. Included  
also are planning, markets, product development,  
pricing, promotion and other related topics.

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 1015*  
Industrial Management I, 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 1161*  
Customer Service, 3 credit hours, 45 lec. (Offered as  
needed)  
A practical course in successful customer service processes and procedures, including telephone techniques, dealing with customer complaints, interpersonal communication skills, dealing with difficult people, response to complaints, protecting confidentiality, and related topics.

MNA 1308*  
Developing Training Program, 3 credit hours, 45 lec.  
(Offered as needed)  
Coverage includes strategic planning, curriculum planning, program development, course development, and lesson planning. As they relate specifically to customized training offered in a business setting. Other topics include identifying training needs, developing a training budget and justifying training costs.

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 1352*  
Training Methods, 3 credit hours, 45 lec. (Offered as  
needed)  
Coverage includes conducting small-group meetings, discussion groups, focus groups, facilitating one-on-one training and mentoring partnerships, presenting lectures, and making demonstrations.

MNA 1353*  
Evaluating Training, 3 credit hours, 45 lec. (Offered as  
needed)  
Coverage includes developing training objectives and monitoring their accomplishment; measuring the value of training; evaluating learning through testing and on-the-job observation; and tying training to performance evaluations.

* Occupational course that may not be applied toward the A.A. Degree.
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 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 the humanities, experiential exercises, films, and contemporary readings on leadership.

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. Prerequisite: Score of 32 or higher on FCEP or successful completion of MAT 0002A or higher math course.

MTB 1310*
College Mathematics, 3 credit hours, 45 lec. (Offered as needed)
An arithmetic-based course with a heavy emphasis on applications. Topics include real numbers, ratio, percentage, formulas, statistics, and consumer topics. It will meet general education requirements for the AS program for students with approved placement scores. Prerequisite: Minimum of 72 on CPT/FCEP to meet AS degree general education requirements; minimum of 32 on the FCEP to meet nursing requirements only.

MTB 1321*
Technical Math I, 3 credit hours, 45 lec. (Offered as needed)
This course will include solving linear equations, factoring polynomials, graphing functions, solving quadratic equations, solving right triangles and oblique triangles, using vectors to solve problems in science and technology and solving word problems from technical fields. It will meet general education requirements for AS and ASO programs. Prerequisite: MAT 0024 with a C or better or satisfactory test scores.

MTB 1322*
Technical Math II, 3 credit hours, 45 lec. (Offered as needed)
This course will include solving systems of equations, finding roots of higher degree equations, solving exponential and logarithmic equations, sketching the graphs of sine and cosine functions, solving trig equations, computation with complex numbers, graphing lines and graphing parabolas. It will meet general education requirements for AS degree programs. Prerequisite: MTB 1321 with a 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. (Offered as needed)
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. (Offered as needed)
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. Prerequisite: MUM 2604.

MUM 2600L
Recording Lab, 1 credit hour, 30 lab. (Offered as needed)
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 2604
Multi-Track Mixdown, 3 credit hours, 30 lecture, 30 lab. (Offered as needed)
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.

**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: Previous experience/departmental approval.

**MUN 1001**  
Summer Ensemble Workshop II, 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.

**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. Students participating in Summer Ensemble Workshop 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 for credit. Prerequisite: Ability to read music and play a band instrument; audition by Director or 1 year experience in a high school advanced band. This course may be taken up to four (4) times for credit.

**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.

**MUN 1310**  
OWCC Chorus, 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 elective OWCC Chorus will be expected to participate in scheduled performances. MUN 1310 may be taken three times for credit. Prerequisite: Experience in high school, church, or community choirs. This course may be taken up to four (4) times for credit.

**MUN 1340A**  
OWCC Show Choir I, 1 credit hour, 45 lab. (Offered as needed)  
A music organization open through auditions to any student. The Symphony chorus will study and perform literature for the large sized chorus. Prerequisite: Audition for placement. May be taken up to four (4) times for credit.

**MUN 1390**  
Symphonic Chorus I, 1 credit hour, 45 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. A variety of musical physical styles will be studied. Students elective OWCC Chorus will be expected to participate in several scheduled performances. Prerequisite: Audition, consent of Department, music or performance minor. This course may be taken four (4) times for credit.

**MUN 1421**  
Flute Ensemble, 1 credit hour, 30 contact, 30 lab. (Offered as needed)  
The study and performance of flute ensemble and flute choir music in a musical group. May be taken up to four (4) times for credit. Prerequisites: A demonstrated ability to play the flute at an acceptable level of performance. Open by audition.

**MUN 1700**  
Jazz/Rock Laboratory, 1 credit hour, 30 lab. (Offered as needed)  
A performance ensemble designed to develop the creative artistry of the musician, without the limitations of a particular style. Under faculty supervision this course will focus on the performance of original compositions by the Jazz/rock Laboratory Ensemble. Instrumentation: all instruments and voice.

**MUN 1710A**  
Rock and Jazz Ensembles I, 1 credit hour, 45 lab. (Offered as needed)  
Music performing organization open to any student who wants to develop his or her performance repertoire. Laboratory studies include techniques of performing music, literature, practices, styles and media applicable to designated organized ensemble. May be taken four times for credit. Prerequisite: Some experience in high school bands, etc. This course may be taken up to four (4) times for credit.

**MUN 1711**  
Jazz Workshop, 1 credit hour, 30 lab. (Offered as needed)  
The study and performance of jazz music in the context of the small ensemble. This will be accomplished through the performance of both stock arrangements and student arrangements. Instrumentation: 5 wind, 4 rhythm, voice rhythms and college syllables, these
skills will be developed. This course may be taken up to four (4) times for credit.

MUN 1720A
Rock and Jazz Ensembles II, 1 credit hour, 45 lab. (Offered as needed)
Music performing organization open to any student who wants to develop his/her performance repertoire. Laboratory studies include techniques of performing music, literature, practices, styles and media applicable to designated organized ensemble. Prerequisite: Some experience in high school bands, etc. This course may be taken up to four (4) times for credit.

MUN 2120
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. This course may be taken four times for credit. Prerequisite: MUN 1180.

MUN 2211
OWCC Symphony Orchestra II, 1 credit hour, 45 lab. (Offered as needed)
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.

MUN 2371
OWCC Show Choir II, 1 credit hour, 45 lab. (Offered as needed)
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: Show Choir I. This course may be taken four (4) times for credit.

MUN 2392
Symphonic Chorus II, 1 credit hour, 45 lab. (Offered as needed)
A continuation of Community Chorus I and is 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.

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 up to four (4) times for credit.

MUT 1001
Fundamentals of Music, 3 credit hours, 45 lec. (Offered as needed)
A pre-theory course for the nonmusic major, the music major who wishes to refresh his fundamental skills, 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, 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, sightseeing, 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, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
A continuation of Music Theory I, MUT 1121. Basic musicianship, writing and reading of music, ear training, dictation, sightseeing 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 1241
Ear Training/Sight Singing I, 1 credit hour, 30 lab. (Offered as needed)
A study of the aural skills needed to develop basic musicianship through student involvement in dictation and singing of intervals, scales, chords, melodies and rhythms with solfege syllables, these skills will be developed.

MUT 1242
Ear Training/Sight Singing II, 1 credit hour, 30 lab. (Offered as needed)
A study of the aural skills needed to develop basic musicianship through student involvement in dictation and singing of intervals, scales, chords, melodies and rhythms with solfege syllables, these skills will be
developed. A continuation of MUT 1241 Ear Training/Sight Singing I.

MUT 1641
Jazz Improvisation I, 2 credit hours, 15 lec., 30 lab.  
(Offered as needed)  
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.

MUT 1642
Jazz Improvisation II, 2 credit hours, 45 lec., 30 lab.  
(Offered as needed)  
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.

MUT 2126
Music Theory III, 3 credit hours, 30 lec., 30 lab.  
(Offered as needed)  
A continuation of Music Theory I and II, 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. Prerequisites: MUT 1121 and MUT 1122.

MUT 2127
Music Theory IV, 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 1121, 1122, 2126.

MUT 2246
Ear Training/Sight Singing III, 1 credit hour, 30 lab.  
(Offered as needed)  
Continued study of the aural skills needed to develop musicianship through student involvement in the dictation and singing of intervals, scales, chords, melodies and rhythms.

MUT 2247
Ear Training/Sight Singing IV, 1 credit hour, 30 lab.  
(Offered as needed)  
Continued study of the aural skills needed to develop musicianship through student involvement in the dictation and singing of intervals, scales, chords, melodies and rhythms.

MUT 2351
Introduction to Jazz Theory/Arranging, 3 credit hours, 45 lec.  
(Offered as needed)  
A lecture-demonstration-workshop approach to jazz/pop 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 1121 and 1122 or equivalent.

MVB 1201
Applied Music Secondary – Brass, 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. Minimum of one hour daily practice is required. Course may be taken four (4) times for credit. Prerequisite: Private instruction or high school experience.

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. Minimum of one hour daily practice is required. Course may be taken four (4) times for credit. Prerequisite: MVB 1201.

MVK 1211
Applied Music – Piano I, 1 credit hour, 7.5 lab.  
(Offered as needed)  
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.

MVP 1201
Applied Music Secondary – Percussion, 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. Minimum of one hour daily practice is required. Course may be taken four (4) times for credit.

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. Minimum of one hour daily practice is required. Course may be repeated four (4) times for credit. Prerequisite: MVP 1201.

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

MVS 1011
Applied Strings – Bass Guitar, 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.

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, 1 credit hour, 7.5 lab. (Offered as needed)
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors. Minimum of one hour daily practice is required. Course may be taken four (4) times for credit.

MVS 2016
Applied Strings – 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.

MVS 2027
Applied Strings – 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.

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 non-music majors and music majors. Minimum of one hour daily practice is required. Course may be taken four (4) times for credit.

MVS 1211
Applied Music – Voice I, 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. Minimum of one hour daily practice is required. Course may be taken four times for credit.

MVS 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 lesson per week, with a minimum of one hour daily practice. Minimum of one hour daily practice is required. Course may be taken four (4) times for credit.

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

OCE 1005
Introduction to Oceanography, 4 credit hours, 60 lec. (Fall, Spring)
A survey of the geography, chemistry, physics, and geology of the oceans. Lectures, demonstrations, and laboratory-type exercises to acquaint the students with oceanographic operations and data. No prerequisite.

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 wordprocessing – learning the keyboard, creating, editing, saving, and other wordprocessing functions.

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

OST 1141
Keyboarding, 1 credit hour, 15 lec. (Offered as needed)
A basic course in keyboarding using the touch system. The proper techniques for keyboarding alphabetic and numeric data will be emphasized.

OST 1211
Basic Shorthand, 3 credit hours, 30 lec., 45 lab. (Fall, Spring)
Basic skills and vocabulary of shorthand. Beginning of dictation and transcription.