FRE 1121  
French II, 4 credit hours, 60 lec. (Spring term only)  
Pronunciation and grammatical structures of French, with emphasis upon balanced development of all four skills – listening, speaking, reading and writing. Covers all basic structures of the language. Prerequisite: FRE 1120 or its equivalent.

GEB 1940*  
Internship-Business, 3 credit hours, 90 lab. (Fall, Spring, Summer)  
On-the-job training in the Associate of Science/Applied Science Option program in which the student is enrolled. The student is under the supervision at work of a qualified supervisor. The supervisor will rate the student’s performance, knowledge, comprehension, dependability, initiative, cooperativeness, and total performance. A project paper or approved project will be submitted by the student three weeks prior to the close of the semester. May be repeated four times for a total of 12 credit hours.

GEB 2137*  
e-Business – Models and Strategies, 3 credit hours, 45 lec. (offered as needed)  
This course focuses on business models with particular focus on the Internet as a facilitator of commerce. Students will also become familiar with how macro environments impact e-commerce.

GEB 2138*  
e-Business Law and Ethics 3 credit hours, 45 lec. (offered as needed)  
This course focuses on legal and ethical issues involved in forming Web-based companies.

GEB 2441  
Business Ethics, 3 credit hours, 45 lec. (Fall, Spring, Summer)  
This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

GLY 2100C  
Historical Geology, 4 credit hours, 45 lec., 30 lab. (Offered as needed)  
A study of the history of the earth, including the origin of continents, mountains and ocean basins as recorded in rocks and fossils. A survey of the fossil record and changes in animal and plant life throughout geological time will also be studied.

GLY 2101C  
Physical Geology, 4 credit hours, 45 lec., 30 lab. (Offered as needed)  
A study of the materials, surface feature, structure and processes of the solid earth. Labs in identification of rocks and minerals. Landforms will be analyzed from topographic and geologic maps. Actual landforms and processes will be studied on field trips and exercises.

GEC 1011  
Introduction to Business, 3 credit hours, 45 lec. (Fall, Spring, Summer)  
Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

GEC 1136*  
Foundations of e-Business, 3 credit hours, 45 lec. (offered as needed)  
This course is designed to provide students with a managerial view of e-Business and e-Commerce.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

❖ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

△ Technology-Across-the-Curriculum Course
GRA 1122C* △
Desktop Publishing II, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
This course is a continuation of Desktop Publishing I; the primary focus will be on the use of the software program InDesign for more advanced applications on a Macintosh computer. Prerequisite: GRA 1121C.

GRA 1162C* △
Introduction to 3-D Graphics and Animation, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
Introductory course in the basic tools, techniques, and applications of 3D graphics and animation. Students will learn to manipulate objects, build models, employ lighting effects and design movement; all planned through careful storyboarding and cinematic techniques.

GRA 2100C* △
Computer Graphics I, 4 credit hours, 30 lec., 60 lab. (Offered as needed)
This course provides instruction and practical exercises in the use of graphics software Photoshop to create, modify and generate color graphics to produce illustrations and charts on a Macintosh desktop publishing system.

GRA 2140C* △
Multimedia I, 4 credit hours, 30 lec., 60 lab. (Fall, Spring, Summer)
An introductory course covering basic principles of design affecting interactive multimedia presentations. Students will learn an interactive media authoring software application and its interaction with other supporting software applications. Students will produce a complete interactive CD-ROM title. Prerequisites: ART 2602C and ART 1600C.

GRA 2141C* △
Multimedia II, 4 credit hours, 30 lec., 60 lab. (Offered as needed)
An advanced course covering principles of design affecting interactive multimedia presentations. Students will learn advanced functions of an interactive media authoring software application and supporting software. Students will produce a finished interactive CD-ROM title. Prerequisite: GRA 2140C.

GRA 2142C* △
Web Design/Graphics, 4 credit hours, 30 lec., 60 lab. (Offered as needed)
This course covers the designing, preparation, and the publishing of Home Pages using Hyper Text Markup Language (HTML) for the World Wide Web on the Internet, using Netscape as the browser. This course is taught from a graphics point-of-view using a Macintosh.

GRA 2143C* △
Advanced Web Design/Graphics, 4 credit hours, 30 lec., 60 lab., (Offered as needed)
An advanced course where students will study an industry standard WYSIWYG web site development tool. Students will produce more sophisticated user interactivity and page layout in a large website project. This course is presented from a graphic perspective. Prerequisite: GRA 2142C.

GRA 2156C* △
Computer Graphics II, 4 credit hours, 30 lec., 60 lab. (Offered as needed)
This course is a continuation of Computer Graphics I. Advanced Photoshop techniques and processes will be covered using a Power Macintosh desktop computer. This is not a beginning level course and requires prior knowledge/experience with Adobe Photoshop. Prerequisite: GRA 2100C.

GRA 2164C* △
Advanced Graphic Projects, 4 credit hour, 30 lec., 60 lab. (Offered as needed)
This course is designed for the advanced graphics student. The student will call upon skills/knowledge previously gained in other courses and software programs to produce several QTVR projects. This course will be considered a capstone in the progression of learning and is not a beginning level course. Prerequisite: GRA 2100C.

GRA 2173C* △
Projects in Graphic Design, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
An advanced course utilizing the student’s full complement of skills and abilities. The student will work under the advisement of the faculty member to produce a large multifaceted project of their own design. Prerequisites: GRA 1121C, ART 1600C, GRA 2100C, and ART 2602C.

GRA 2210C* △
Pre-Press Assembly, 4 credit hours, 30 lec., 60 lab. (Offered as needed)
Classroom and lab experiences using a computer to prepare both spot and process color images, colorize artwork, and print separations; students will produce an 8-page booklet from beginning to end. Prerequisites: GRA 1122C and GRA 2100C.

GRA 2900* △
Independent Study – Graphic Art, 1 credit hour, 30 lab. (Offered as needed)
Practical treatment of Graphics/Printing Technology. Emphasis on individual work projects.

GRA 2905* △
Independent Study – Graphics/Printing, 1 credit hour, 45 lab. (Offered as needed)
The student will initiate independent computer related work, utilizing various software and hardware. The course may be taken four times for credit.

GRA 2949* △
Directed Work Study – Graphics/Printing, 1 credit hour, 45 lab. (Offered as needed)
The student will complete computer-related work utilizing various computer-related hardware and software under the direct guidance of an instructor. This course may be taken four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△ Technology-Across-the-Curriculum Course
HFT 2210*  
Hospitality Management I, 3 credit hours, 45 lec.  
(Offered as needed)  
An introductory study of problems originating in the operation and administration of various segments of the hospitality industry. Prerequisite: MAN 2021.

HFT 2211*  
Hospitality Management II, 3 credit hours, 45 lec.  
(Offered as needed)  
A continuing study of the hospitality industry. Prerequisites: MAN 2021, HFT 2210.

HFT 2940*  
Hospitality Management – Internship I, 3 credit hours, 90 lab.  
(Offered as needed)  
A management internship program providing on-the-job management experiences in various phases of the hospitality industry.

HFT 2941*  
Hospitality Management – Internship II, 3 credit hours, 90 lab.  
(Offered as needed)  
A management internship program providing on-the-job management experiences in various phases of the hospitality industry.

HIM 1000*  
Introduction to Health Information Management, 3 credit hours, 45 lec.  
(Fall, Spring, Summer)  
Orientation to medical records history and professional associations. Confidentiality, filing, retrieving, indexing, numbering, storage and content of the medical record is also discussed. The course includes job search skills and professional job performance.

HIM 1270C*  
Medical Billing, 2 credit hours, 15 lec., 30 lab.  
(Summer)  
Introduction to computerized medical billing and reimbursement through various payors. Correct completion of HCFA 1500 forms will be emphasized. Prerequisite: HIM 1282, knowledge of basic computer & keyboarding skills.

HIM 1282*  
Basic Coding for Medical Records, 4 credit hours, 60 lec.  
(Spring)  
Development of nomenclature and classification systems and an introduction to ICD-9-CM and CPT coding. Introduces the student to Ambulatory Payment Classifications (APCs) and Diagnostic Related Groups (DRGs). Prerequisites: HSC 1531, BSC 1080.

HIM 2283C*  
Advanced Coding for Medical Records with Lab, 5 credit hours, 60 lec. 30 lab.  
(Summer)  
Advanced instruction in coding/ICD-9-CM diagnoses, and procedures in ICD-9-CM and CPT both manually and automated. Provides sequencing guidelines and rules and regulations in both the hospital and physician office setting. Prerequisites: HIM 1282, knowledge of basic computer and keyboarding skills.

HIM 2433*  
Pathophysiology, 4 credit hours, 60 lec.  
(Offered as needed)  
Introduction to the nature, cause, and treatment of disease entities and the body’s defense mechanisms. Commonly used drugs will also be introduced.

HLP 1081  
Wellness: Practice and Theory, 3 credit hours, 45 lec.  
(Fall, Spring, & Summer)  
A course designed to promote wellness through assessment, instruction and fitness programs which, if applied, will enable the individual to achieve and/or maintain a high quality of health and fitness throughout life. Based on assessment test results a physical examination by a physician may be recommended.

HSA 1101  
Introduction to Health Care, 2 credit hours, 15 lec., 30 lab.  
(Offered as needed)  
Introduction to the health care delivery system and health related occupations. Also safety, security, and infection control procedures will be discussed.

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.  
(Fall, Spring, Summer)  
A chronological survey of techniques and forms related to art, dance, film, literature, music, philosophy, religion and theatre. Art works and selected readings are utilized as much as possible. The course includes writing-across-the-curriculum (4,000 words) and speaking-across-the-curriculum. If used to meet AA Gordon Rule requirements for general education, a minimum grade of “C” is also required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080 and/or LIN 1670 with a grade of “C” or better.

* 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.

❖ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
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. Departmental approval is required. Placement test may be required.

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

HUM 2251 †
Humanities – A Contemporary Perspective, 3 credit hours, (Fall, Spring, Summer)
This course is an integrated study of the artistic, cultural, philosophic, religious, social, and technological influences that shape modern western cultures in the modern era. The focus will begin with the 20th century and follow, chronologically, the issues of the modern era. Gordon Rule course which requires 4,000 words of writing and a minimum grade of “C” if used to satisfy Gordon Rule general education requirements. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC0080 and/or LIN 1670 with a grade of “C” or better.

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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA Gordon Rule requirements for general education, a minimum grade of “C” is also required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080 and/or LIN 1670 with a grade of “C” or better.

HUM 2920
Humanities Colloquium – 1 credit hour, 5 lec., 20 lab. (Fall, Spring, Summer)
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 OWC Visual and Performance Arts presentations and to write a short critical review of each. Topics may vary. Prerequisite: Placement test may be required.

HUM 2930
Humanities – Special Topics, 3 credit hours, 45 lec. (Fall, Spring Summer)
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

HUN 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.

HUN 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.

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.

INR 2002
Current World Problems, 3 credit hours, 45 lec. (Offered as needed)
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.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
◊ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.
∆ Technology-Across-the Curriculum Course
INR 2270
Study Abroad/Introduction to International Studies, 3 credit hours, 30 lec., 30 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, and 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. Major topics include the global community, tools of power, international issues, and the evolution of the international system.

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 FCPT. This course is strongly recommended for students scoring 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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA Gordon Rule requirements for general education, a minimum grade of “C” is also required. 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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA Gordon Rule requirements for general education, a minimum grade of “C” is also required. 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 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). Non-symbolic graphing calculators are required. The TI-83 Series is recommended. 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)
This is the second course in a pre-calculus sequence. A typical modern trigonometry course which includes the following topics: the six trigonometric functions and their inverses; identities; right triangles; applications; vectors; circular functions; graphs of trig functions and inverse trig functions; trigonometric equations; triangles; complex numbers; and polar graphs. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. Prerequisite: MAC 1140 with a grade of “C” or better, or equivalent.

❖ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

△ Technology-Across-the Curriculum Course
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. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. Prerequisite: Completion of 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. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. 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 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. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. 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'Hopital’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. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. Prerequisite: Completion of 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, arc lengths and surface areas; methods of integration including integration by parts, trigonometric substitution, and partial fractions; indeterminate forms and L'Hopital's Rule; improper integrals, conic sections; graphing and area in polar coordinates; infinite sequences and series; tests for absolute and conditional convergence of series; power series. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. 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. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. Prerequisite: Completion of MAC 2312 with a grade of “C” or better, or equivalent.

MAN 2021
Management, 3 credit hours, 45 lec. (Fall, Spring, Summer)
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. (Fall, Spring, Summer)
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 2313 with a “C” or better or concurrent enrollment in MAC 2313. Equivalent courses from other institutions may be used to meet the prerequisite.
### DEC 2011

**Introduction to Marketing, 3 credit hours, 45 lec. (Fall, Spring, Summer)**

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.

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**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. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. Prerequisite: MAC 2312 with a grade or "C" or better, or equivalent.

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**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 functions, exponential and logarithmic functions, 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.

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**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.

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**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.

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**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. Prerequisite: CHM 1020 or CHM 1045C or BSC 1010C or BSC 1085C.

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**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.

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**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.

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**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.

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**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.

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**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.

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**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.

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**MKA 2041**  
**Retail Management, 3 credit hours, 45 lec. (Fall, Spring, Summer)**

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.

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* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
MKA 2511*  
Introduction to Advertising, 3 credit hours, 45 lec.  
(Fall, Spring, Summer)  
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 1161*  
Customer Service, 3 credit hours, 45 lec. (Fall, Spring, Summer)  
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.

MNA 1345*  
Supervision I, 3 credit hours, 45 lec. (Fall, Spring, Summer)  
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.

MSL 1001  
Foundations of Officership, 1 credit hour, 15 lec., 15 lab. (Fall)  
This course examines the unique duties and responsibilities of officers, organization and role of the Army, reviews skills pertaining to fitness and communication, and analyzes Army values and expected ethical behavior. Requires participation in a weekly one-hour leadership laboratory.

MSL 1002  
Basic Leadership, 1 credit hour, 15 lec., 15 lab. (Spring)  
This course presents fundamental leadership concepts and doctrine, the practice of basic skills that underlie effective problem solving, and examines the officer experience. This course requires participation in a weekly one-hour leadership laboratory.

MSL 2101  
Individual Leadership Studies, 2 credit hours, 30 lec., 15 lab. (Fall)  
This course develops knowledge of self-confidence and individual leadership skills. It develops problem solving and critical thinking skills, as well as how to apply communication, feedback, and conflict resolution skills. This course requires participation in a weekly one-hour leadership laboratory.

MSL 2102  
Leadership and Teamwork, 2 credit hours, 30 lec., 15 lab. (Spring)  
This course focuses on self-development guided by knowledge of self and group processes, challenges current beliefs, knowledge, and skills. This course requires participation in a weekly one-hour leadership laboratory.

MTB 1103*  
Business Mathematics, 3 credit hours, 45 lec. (Fall, Spring, Summer)  
Offers 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.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
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.

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 1001†  
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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA Gordon Rule requirements for general education, a minimum grade of “C” is also required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080 and/or LIN 1670 with a grade of “C” or better.

MUH 2930  
Music Humanities – Special Topics, 3 credit hours, 45 lec. (Fall, Spring, Summer)  
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

MUM 1620  
Audio and Acoustic Fundamentals, 3 credit hours, 45 lec. (Offered as needed)  
Audio & Acoustic Fundamentals explores the basics of audio systems and equipment and the acoustical environment in which they are used. Emphasis is placed on equipment terminology, function and acoustical listening. The two basic fundamentals are summed together to begin laying the basic foundation required to operate audio & recording equipment.

MUM 2300  
Introduction to the Music Industry, 3 credit hours, 45 lec. (Fall, Spring, Summer)  
The 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. Prerequisite: MUM 1620.

MUM 2600  
Recording Techniques I, 3 credit hours, 30 lecture, 30 lab. (Fall, Spring, Summer)  
The 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)  
The course is designed to provide students with “hands on” experience in conjunction with live performance activities. This course may be taken up to three (3) times for credit. Windows 98 or higher is required for students taking the online distance learning version of this course.  
NOTE: This course is a corequisite for MUM 2601, however MUM 2601 is not a co-requisite for this course. This course may be taken alone. This course may also be taken in conjunction with MUM2604.

MUM 2601  
Recording Techniques II, 3 credit hours, 30 lecture, 30 lab. (Fall, Spring, Summer)  
The 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)  
The 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.

MUM 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.

* 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 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. Students participating in Summer Ensemble Workshop will be expected to participate in several scheduled performances. Prerequisite: MUN 1001.

MUN 1180
OWC 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
OWC 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 artist, choral groups and theatre ensembles. This course may be taken up to four (4) times for credit. Prerequisite: experience in symphony orchestra or symphonic band.

MUN 1310
OWC 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 OWC Chorus will be expected to participate in scheduled performances. MUN1310 may be taken four times for credit. Prerequisite: Experience in high school choral music background.

MUN 1340A
OWC 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 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: Audition, consent of Department, music or performance minor. This course may be taken up to four (4) times for credit.

MUN 1360
Madrigal Singers I, 1 credit hour, 45 lab. (Offered Fall, Spring)
Course teaching madrigal styles to include a cappella, Renaissance madrigals (choral settings of love songs), as well as choral folk songs. May be repeated four 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 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. May be taken four (4) times for credit. Prerequisite: strong music performance background.

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. This course may be taken up to four (4) times for credit. Prerequisite: Strong music performance background with basic knowledge of the jazz idiom.
MUN 1720A
Rock and Jazz Ensembles II, 1 credit hour, 45 lab. (Fall, Spring)
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
OWC Band Community II, 1 credit hour, 45 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: MUN 1180.

MUN 2211
OWC Symphony Orchestra II, 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 2361
Madrigal Singers II, 1 credit hour, 45 lab. (Fall, Spring)
Madrigal Singers is an advanced choral ensemble composed of approximately 12 to 14 singers. May be taken 4 times for credit. Prerequisite: MUN 1360.

MUN 2371
OWC 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 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: 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: MUN 1390.

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. Placement test may be required.

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

MUS 2930
Music – Special Topics, 3 credit hours, 45 lec. (Fall, Spring Summer)
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

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 Δ
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, sight-singing, major and minor scales, intervals, triads, chords, polyphonic composition and elementary keyboard work. Prerequisite: MUT 1001 or instructor permission.

MUT 1122 Δ
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, sight-singing 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.

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. 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. 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 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 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 times for credit.

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 non-music 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 lesson per week, with a minimum of one hour daily practice. Course may be taken four (4) 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 non-music 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 non-music majors and music majors. Course may be taken four (4) times for credit. Prerequisite: MVW 1201.

NUR 1021L
Nursing Process I Clinical Experience, 4 credit hours, 150 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. Prerequisite: Admission to the Nursing Program or permission of the Director of Nursing. Co-requisite: NUR 1021. Special Nursing Program policies may apply to this course.

NUR 1141C
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. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1021, BSC 1085C, BSC 1086C, DEP 2004. Co-requisites: NUR 1231, NUR 1750L; MCB 2010C, SYG 2000. Special Nursing Program policies may apply to this course.

NUR 1200
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. 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 1200L. Special Nursing Program policies may apply to this course.
NUR 1200L  
Orientation to AD Nursing Clinical Experience, 3 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 program. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, BSC 1086C, NUR 2201L, SYG 2000, ENC 1101L, DEP 2004 and LPN licensure or equivalent education. Co-requisites: MCB 2010C, NUR 1200. Special Nursing Program policies may apply to this course.

NUR 1231  
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 situations 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. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, BSC 1086C, NUR 2201L, SYG 2000, ENC 1101L, DEP 2004 and LPN licensure or equivalent education. Co-requisites: MCB 2010C, NUR 1200. Special Nursing Program policies may apply to this course.

NUR 1750L  
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. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1021L, NUR 1021L: BSC 1085C or BSC 1086C. Co-requisites: NUR 1231. NUR 1141C, MCB 2010C, SYG 2000, BSC 1086C. Special Nursing Program policies may apply to this course.

NUR 1940L  
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. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1231/NUR 1750L; NUR 1141C. Special Nursing Program policies may apply to this course.

NUR 2233  
Nursing Process III, 6 credit hours, 90 Lec. (Offered Fall)  
Students continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development. Prerequisites: NUR 1231, NUR 2811L: Co-requisite: NUR 2233L. Special Nursing Program policies may apply to this course.

NUR 2233L  
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 nursing 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 settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions 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. Prerequisites: NUR 1231, NUR 1751L, BSC 2010C Co-requisite: NUR 2233L. Special Nursing Program policies may apply to this course.