Alpine Academy
CHARTER HIGH SCHOOL

605 Boxington Way Suite 112 Sparks, NV 89434 Phone: (775) 356 -1166 Fax: (775) 356 - 1168 Website: www.alpineacademy.net

To: Nevada Department of Education

From: Alpine Academy

Date: June 21, 2013

Re: Request to offer dual credits for successful completion of college courses

To Nevada Department of Education,

Alpine Academy is requesting the capacity to offer dual credits for students who successfully complete college courses at Truckee Meadows Community College. A course list is attached to this document. Students may earn .5 credit for college courses successfully completed.

Sincerely,

Jill Ross Principal

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Course List

Visual Foundations ART 100 3.00 - 5.00 Prerequisite: None Explores visual forms and contemporary concepts through a variety of media, presentations and discussions. Transfers to UNR/UNLV. Satisfies UNR Fine Arts core curriculum

Drawing I ART 101*3.00Prerequisite: None Introduction to drawing techniques and concepts

.**Drawing II ART 102*3.00**Prerequisite: ART 100 and 101* (formerly ART 121).Continued exploration of drawing techniques and concepts

General Auto AUTO 1012.00 - 7.00 Prerequisite: None An introductory course describing the principles of operation, design, construction and maintenance of automobiles. Activities include shop safety emphasis, use of service manuals, use of tools and fasteners, general maintenance of cooling systems, lubricating systems; an overview and demonstration of electrical, fuel and ignition systems; an overview and explanation of chassis, steering, suspension and brake systems. Human relations, leadership and work ethics related to the automotive industry will also be covered. This course may not transfer to a baccalaureate degree of art or science within the universities in the Nevada System of Higher Education (NSHE).

Engine Repair AUTO 1365.00 Prerequisite: AUTO 101 or instructor permission. This course covers theory and operation of the internal combustion engine. Different types of automotive and light duty diesel engines will be properly disassembled, parts identified and inspected. Engine oiling and cooling systems will be covered. The engine will be reassembled to manufacturer's specifications. This course may not transfer to a baccalaureate degree of art or science within the universities in the Nevada System of Higher Education (NSHE

.**Introduction to Evolution and Adaptation BIOL 106 3.00** Prerequisite: None An introductory course examining evolution and adaptation in organisms. Includes a review of history of the scientific process, Darwinian and Neo-Darwinian evolution, introduction to genetic variation, natural and artificial selection, theories on the origin of life, human evolution and genetically modified organisms (GMOs). Three hours of lecture per week and four labs per semester

Introduction to Business BUS 101 3.00 Prerequisite: C or better in MATH 120/126 or BUS 117; ENG 101/113 or BUS 98/108; or qualifying Accuplacer, SAT or ACT scores for these courses. Survey course designed to give students a broad introduction to the principles, practices and functions of businesses as they are practiced in both the national and global economies. Relevance will be provided through research and Internet projects and assignments. Topics to be covered include management, marketing, finance, investments,

Chem 103 PREPATORY CHEMISTRY Prerequisite: MATH 096 or placement in MATH 120 or higher. This course is a preparatory course for students with a deficiency in high school chemistry or who have not had chemistry before who wish to qualify for CHEM 110 or 121. Focus will be on developing problem solving skills and study skills in chemistry required to succeed in CHEM 110 or 121. Does not satisfy the General Education Core Science requirement.

Recitation for General Chemistry ICHEM 120 1.00 Corequisite: Must be concurrently enrolled in CHEM 121.Students must be concurrently enrolled in CHEM 121 in order to take this course. This course is a recitation section for CHEM 121 that includes additional practice in problem solving and chemistry skills used in CHEM 121

.**General Chemistry ICHEM 121 4.00** Prerequisite: ENG 98R and MATH 120 or equivalent or qualifying Accuplacer, ACT/SAT scores. Fundamental principles of chemistry and the properties and uses of the common nonmetallic elements
and various other areas such as international business, small business, and ethics. Attendance beyond the first class is subject to instructor approval.

Dance Appreciation DAN 101 3.00 Prerequisite: None This course is an exploration of the world's first and most universal art form. Various forms of multicultural ethnic dance forms, plus an overview of popular dance forms, are explored through the use of lecture, video and demonstration

Basic Electricity ENRG 110 3.00 - 4.00 Prerequisite: None An introductory course in electrical principles, applications, and distribution. This course provides an overview of safety, circuits, wiring, grounding, resistance, current, voltage, and troubleshooting. Students will develop a basic understanding of how electricity is distributed and the implications of the emergence of renewable energy resources. This course may not transfer to a baccalaureate degree of art or science within the universities in the Nevada System of Higher Education (NSHE). **Fundamentals of Energy Effi-**

ciency

ENRG 120 3.00 Prerequisite: None This course introduces students to techniques for the description, measurement, and analysis of energy use in building systems to maximize efficiency. It will include evaluation and recommendation of alternative energy solutions that will result in greater energy efficiency and energy cost savings

.**Composition IENG 101 3.00** Prerequisite: Grade of C- or better in ENG 98R; Qualifying Accuplacer score for Reading Comprehension of 86+ and Write Placer of 5+. Qualifying ESL Accuplacer scores: Reading Comprehension of 86+ and LOEP Write Placer score of 6.Writing intensive course designed to strengthen college level writing skills, with particular attention to persuasion, analysis, synthesis and an introduction to research methodologies. Focus on process through drafting, revising and editing is emphasized. Conventions of standard English are reviewed. Additionally, critical reading strategies of college level texts are developed

Composition IIENG 102 3.00 Prerequisite: ENG 101 or equivalent or SAT/ACT test results. Continuation and extension of English 101 with an exploration of essay forms with particular attention to interpretation, analysis and synthesis, while emphasizing analytical reading and writing, critical thinking and research methodologies

ENGLISH 107 3.00 Prerequisite: ENG 97 or ENG 98R or qualifying Accuplacer, ACT/SAT score. Introduction to expository methods with concentration on specific writing forms including memorandums, cover and business letters, formal and informal reports, manuals, and proposals. Suggested for students in occupational fields

Technical Communications II ENG 108 3.00 Prerequisite: None A continuation of expository methods. Concentration on developing writing projects required on the job. Lecture and individual instruction. Suggested for students in occupational fields

Fundamentals of Entrepreneurship ENT 200 3.00 Prerequisite: None This course explores the basics of entrepreneurship. This is a survey course that briefly introduces students to the various aspects and activities involved in entrepreneurship. Students then complete the focused courses on each aspect and complete the degree with the capstone ENT 280. The course will look at the characteristics of entrepreneurs, the cycle of entrepreneurship, idea generation and validation of an idea's ability to be successful, how to present your business idea to potential investors and how to take the plunge

Physical Geography GEOG 103 3.00 Prerequisite: None Physical elements of geography. Earth and its representation. Nature and distribution of climate, land forms, natural vegetation and soils. Effective spring 2009, students must enroll in both lecture (103) and lab (104) to receive credit. Satisfies UNR science core curriculum

.**Physical Geography Lab GEOG 104 1.00** Prerequisite: None Lab portion of GEOG 103. See GEOG 103 for description. Must be taken concurrently with GEOG 103.

Introduction to Cultural Geography GEOG 106 3.00 Prerequisite: None Systematic consideration of the spatial aspects of human culture. Major thesis: spatial history and morphology, society-land relations and economic development and resource utilization.

Geology: Exploring Planet Earth GEOL 101 4.00 Prerequisite: ENG 98R and MATH 96 or qualifying Accuplacer, ACT, or SAT scores.A laboratory course covering geologic concepts, features and processes. The laboratory experience includes reading of topographic and geologic maps and the study and identification of common rocks and minerals and study of geologic phenomena. Three hour's lecture,three hour's lab per week. Transfers for four credits to UNR/UNLV. Satisfies UNR science core curriculum

Design Fundamentals GRC 107 3.00 - 4.00 Prerequisite: None Foundation course in the application and appreciation of the basic principles and elements of design, including form, shape, value and spatial relationships. Emphasis will be placed on developing creative skills and working with the design process. Challenge by portfolio is available.

Color and Design GRC 109 3.00 - 4.00 Prerequisite: None Color theories, color technologies and the applications of color in art and design. Intermediate, two-dimensional design problems focusing on the compositional, optical and psychological aspects of visual communication.

HIST 101 3.00 Prerequisite: ENG 101 or equivalency completed or concurrently enrolled. Survey of U.S. political, social, economic, diplomatic and cultural development from 1865 to the present. Includes examination of the Nevada Constitution and satisfies the Nevada Constitution requirement

.**United States History II (Since 1865)HIST 102 3.00** Prerequisite: ENG 101 or equivalency completed or concurrently enrolled. Survey of U.S. political, social, economic, diplomatic and cultural development

MATH 106 3.00 Prerequisite: MATH 95 or equivalent or qualifying Accuplacer, ACT/SAT test results. This course is designed to provide a basic working knowledge of practical geometry for students who have never taken a course in geometry or who need a refresher course. Theory is not emphasized. Some of the topics covered are: area of plane figures, similarity, volume of solids, angle measure, and properties of special triangles. This course may not transfer to a baccalaureate degree of art or science within the universities in the Nevada System of Higher Education (NSHE).

MATH PRE CALCULUS 126 3.00 Prerequisite: A grade of C or better in MATH 96 or 97 or equivalent or qualifying ACCUPLACER, ACT/SAT test results. A graphing calculator may be required for this course. The study of equations and inequalities involving radical, rational, quadratic or absolute value terms. Also includes polynomial, rational, exponential and logarithmic functions, their graphs and applications

.**Pre-Calculus II MATH 127 3.00** Prerequisite: A grade of C or better in MATH 126 or equivalent or qualifying ACCUPLACER, ACT/SAT test results. A graphing calculator may be required for this course. Continuation of Math 126. Includes the study of circular functions, their graphs and applications; analytic trigonometry; the coordinate geometry of lines and conics; solving systems of equations; matrices; mathematical induction. The combination of Math 126 and Math 127 is equivalent to UNR's Math 128

.**Pre-Calculus and Trigonometry MATH 128 5.00** Prerequisite: A grade of C or better in MATH 96 or equivalent or qualifying ACCUPLACER, ACT/SAT test results. A graphing calculator may be required for this course. The study of equations and inequalities involving radical, rational, quadratic, absolute value terms or trigonometric function terms. Also includes the study of the circular functions, polynomial, rational, exponential and logarithmic functions, their graphs and applications, analytic trigonometry; the coordinate geometry of lines and conics; solving systems of equations; matrices and mathematical induction. A graphics calculator may be required for this course

.**Elements of Calculus MATH 176 3.00** Prerequisite: A grade of C or better in MATH 126 or equivalent or qualifying ACCUPLACER, ACT/SAT test results. A graphing calculator may be required for this course. Topics covered include graphing functions, derivatives, integrals, applications, the Fundamental Theorem of Calculus. This course is designed for business, social science or biological science majors. Satisfies UNR math core curriculum.

Calculus I MATH 181 4.00 Prerequisite: A grade of C or better in MATH 127 or 128 or equivalent or qualifying ACCUPLACER, ACT/SAT test results. A graphing calculator may be required for this course. Topics covered include functions, the derivative, differentiation of functions, applications of the derivative, understanding the definite integral, finding integrals and applications of integrals. Throughout the course topics will be viewed geometrically, numerically and algebraically. This course is oriented toward students of mathematics, physical science and engineering. Satisfies UNR math core curriculum.

Calculus II MATH 182 4.00 Prerequisite: A grade of C or better in MATH 181 or equivalent. A graphing calculator may be required for this course. A continuation of MATH 181. Topics covered include a continuation of the definite integral, finding integrals and applications of integrals, differential equations and approximations of functions with simpler functions. Throughout the course topics will be viewed geometrically, numerically and algebraically. This course is oriented toward students of mathematics, physical science and engineering.

Music Fundamentals MUS 101 3.00 Prerequisite: None Notation, terminology, intervals, scales and chords. Designed to furnish a foundation for musicianship and music theory. TMCC College Catalog 2012-2013* This course might not transfer to a baccalaureate degree of art or science within the universities in the Nevada System of Higher Education (NSHE). If you plan to pursue a four-year degree, check with the institution where you intend to transfer to learn whether this course will count toward the degree you intend to seek.

Vocal Techniques MUS 105 2.00 Prerequisite: None Fundamentals of tone production, breath control, and practical techniques involved in reading and interpreting songs. May be repeated for a maximum of 4 credits

.**Guitar Class I MUS 107 2.00** Prerequisite: None This course is geared toward the beginning level guitarist. Topics will include chording, music reading, melody playing, right hand technique and style.

Guitar Class II MUS 108 2.00 Prerequisite: Successful completion of Guitar I (MUS 107) or instructor approval. This course is geared toward the intermediate level guitarist. Emphasis is placed on improving individual performance on the guitar and will include playing chords and melodies, reading music and guitar technique

.**Piano Class I MUS 111 2.00 - 3.00** Prerequisite: None Beginning piano class. Music reading and keyboard techniques from beginning through early intermediate levels. No previous musical training required

.**Piano Class II MUS 112 R2.00 - 3.00** Prerequisite: MUS 111.Continuation of beginning piano class. Music reading and keyboard techniques from early intermediate through intermediate levels

Introduction to Philosophy PHIL 101 3.00 Prerequisite: None Basic problems in different areas of philosophy such as ethics, political theory, metaphysics and epistemology. Transfers to UNR as a humanities course

General Psychology PSY 101 3.00 Prerequisite: None Survey of the basic foundations of psychology with emphasis on psychological theories, research methods and principles of behavior. Psychology 101 is also offered via tele course. See class schedule. Satisfies UNR Social Science core curriculum.

College Reading Strategies READ 135 1.00 - 3.00 Prerequisite: None Improvement of reading comprehension, critical thinking skills, vocabulary, reading rate and study-reading techniques through reading and analyzing a variety of texts, including book-length works and textbook selections from various areas

FIRST YEAR SPANISH 1 11 4.00 Prerequisite: None Introduction to the language through the development of language skills and through structural analysis. Includes an introduction to Spanish and Latin American cultures. This course transfers to UNR as SPAN 111
.**First Year Spanish IISPAN 1124.00** Prerequisite: SPAN 111 or equivalent. A continuation of Spanish 111. This course transfers to UNR as SPAN 112.

Basic Metals WELD 101 3.00 Prerequisite: None Basic techniques of metal forming and fabrication using drill press, lathe, milling machine; soldering; brazing; oxyacetylene and electric arc welding. This course may not transfer to a baccalaureate degree of art or science within the universities in the Nevada System of Higher Education (NSHE).

Beginning Welding for Art WELD 111 3.00 Prerequisite: None Basic techniques of design and fabrication of metal sculpture, with oxy-fuel, arc welding, various hand tools. Use copper, brass, and steel to build sculptures. This course may not transfer to a baccalaureate degree of art or science within the universities in the Nevada System of Higher Education (NSHE).