



**Substantive Change Application, Part 1: General Questions**

**New Programs**

**Institution:** Barton County Community College **City, State:** Great Bend, KS

**Name of person completing this application:** Myrna Perkins **Date Submitted:** 06/24/2013

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The questions are designed to elicit brief, succinct, detailed information, rather than a narrative or references to extensive supporting documents. Do not attach other documents unless they are specifically requested in the questions.

The total submission should be no more than 10-12 pages on a single classification of change. The submission should be no more than 20 pages total on an application addressing multiple change requests.

Submit the completed application as a single electronic document (in Adobe PDF format) emailed to [changerequests@hlcommission.org](mailto:changerequests@hlcommission.org).

**Requested Change(s).** *Concisely describe the change for which the institution seeks approval.*

Please Note: If submitting a change request for a new program *and* distance offerings or a new program *and* location, the institution should submit the New Program Application. Otherwise an institution submitting more than one change request should complete multiple applications, one for each type of change.

Barton County Community College is seeking to add a new degree program – Associate in Applied Studies in Technical Studies.

**Classification of Change Request.** Check all boxes that apply to the change.

*Note: not every institutional change requires prior review and approval. Review the [“Overview of Commission Policies and Procedures for Institutional Changes Requiring Commission Notification or Approval”](#) to make certain that current HLC policy requires the institution to seek approval.*

<p><b>Change in mission or student body:</b></p> <p><input type="checkbox"/> change in mission</p> <p><input type="checkbox"/> change in student body</p>	<p><b>New academic program(s) requiring HLC approval:</b></p> <p><input type="checkbox"/> certificate                      <input type="checkbox"/> bachelor’s</p> <p><input type="checkbox"/> diploma                              <input type="checkbox"/> master’s/specialist</p> <p>XX associate’s                      <input type="checkbox"/> doctorate</p>
<p><b>New additional locations:</b></p> <p><input type="checkbox"/> in home state</p> <p><input type="checkbox"/> in other state(s) or in other country(ies)</p> <p><b>New branch campus:</b></p> <p><input type="checkbox"/> new or additional campus(es)</p>	<p><b>Distance Delivery:</b></p> <p><input type="checkbox"/> Initiation of distance education</p> <p><input type="checkbox"/> Expansion of distance education</p> <p><input type="checkbox"/> Initiation of correspondence education</p> <p><input type="checkbox"/> Expansion of correspondence education</p>

<p><b>Consortial or contractual arrangement:</b></p> <p><input type="checkbox"/> Consortial arrangement</p> <p><input type="checkbox"/> Contractual arrangement</p> <p style="margin-left: 20px;"><input type="checkbox"/> The institution has completed the Screening Form for Contractual Arrangements and has been advised that approval is required. (If not, see the Substantive Change Screening Form for Contractual Arrangements)</p>	<p><b>Other:</b></p> <p><input type="checkbox"/> Substantially changing the clock or credit hours required for a program</p>
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**Institutional Context for Substantive Change Review.** *In 1-2 paragraphs, describe the key dynamics — institutional mission and internal or external forces — that stimulated and shaped the change.*

<p>This degree enables a student to design an individualized program of study to fulfill a unique career goal that cannot be met through the completion of any single technology program offered by a college. A common example would be the mix of a technical program (e.g. automotive technology) with technical coursework in business for those planning to open their own automotive repair business.</p> <p>This degree will combine into a joint technical program with a focus directly related to the student's career objective. Students will develop an individualized program sequence through a structured advising process with faculty and college counselors, to facilitate meeting the requirements of the A.A.S. degree in Technical Studies.</p>
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**Special conditions.** *Underline YES or NO attesting to whether any of the conditions identified below fit the institution. If YES, explain the situation in the box provided.*

<p>Is the institution, in its relations with other regional, specialized, or national accrediting agencies, currently under or recommended for a negative status or action (e.g., withdrawal, probation, sanction, warning, show-cause, etc.)?</p>	<p>YES</p> <p><u>NO</u></p>	
<p>Is the institution now undergoing or facing substantial monitoring, special review, or financial restrictions from the U.S. Dept. of Education or other federal or state government agencies?</p>	<p>YES</p> <p><u>NO</u></p>	
<p>Has the institution's senior leadership or board membership experienced substantial resignations or removals in the past year?</p>	<p>YES</p> <p><u>NO</u></p>	

Is the institution experiencing financial difficulty through such conditions as a currently declared state of exigency, a deficit of 10% or more, a default or failure to make payroll during the past year, or consecutive deficits in the two most recent years?	YES <u>NO</u>	
Is the institution experiencing other pressures that might affect its ability to carry out the proposal (e.g., a collective bargaining dispute or a significant lawsuit)?	YES <u>NO</u>	

**Approvals.** Check the approvals that are required prior to implementing the proposed change and include documentation of the approvals to the request.

- XX  Internal (faculty, board) approvals
- System approvals (for an institution that is part of a system)
- XX  State approval(s) for requests other than for Distance Delivery
- For Distance Delivery only: process in place to ascertain and secure state approval(s) as required
- Foreign country(ies) approvals (for an overseas program or site)
- No approval required

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**Specialized Accreditation**

Complete this section only if specialized accreditation is required for licensure or practice in program(s) covered by this change application.

- The institution has already obtained the appropriate specialized accreditation. Attach a copy of the letter from the agency granting accreditation.
- The institution has begun the process of seeking or plans to seek specialized accreditation. Specify the name of the agency and the timeline for completing the process. (If approval is a multi-stage process, the institution should contact the HLC staff liaison to discuss the timeline before submitting this change application form.)
- The institution does not plan to seek specialized accreditation. Provide a rationale for not seeking this accreditation.

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**Changes Requiring Visits**

Complete this section only if the institution is already aware that the proposed change will need to be reviewed through a visit. (If the institution is unsure whether a visit is required, the Commission will advise the institution based on the information provided in the change application.)

- Request to schedule a Change Visit.  
If a Change Visit has already been planned in consultation with Commission staff, specify the date set for the visit: \_\_\_\_\_
- Request to add a proposed change to an already scheduled visit. Specify type of visit and date scheduled: \_\_\_\_\_

Whether the change will be reviewed through a separate Change Visit or embedded in an already scheduled visit, the following schedule will apply.

1. The institution files Part 1 of this change form at least 4 months before the visit. If the visit has not already been scheduled, this filing will initiate the process of scheduling the visit.
2. The institution files Part 2 of this change form at least 2 months before the scheduled visit. If the change will be embedded in an already scheduled visit, the form should be filed as an attachment to the report prepared for that visit.

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*Please note: The Commission plans to update the change forms annually, on or about September 1 of each year. However, if a Change Application form was accessed more than 90 days prior to filing, it is recommended that the institution visit <http://www.ncahlc.org/change> to ensure that there have been no changes in the application form in the intervening time.*

<p style="text-align: center;"><b>Substantive Change Application, Part 2: Topic-Specific Questions</b></p> <p style="text-align: center;"><b>New Programs</b></p>
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An institution should submit a separate application for each requested program. Each proposed new program should be identified by using the *Classification of Instructional Programs* terminology (CIP codes). CIP codes are established by the U.S. Department of Education's National Center for Education Statistics as a taxonomic scheme that supports the accurate tracking and reporting of fields of study and program completions activity. More information is available at <http://nces.ed.gov/ipeds/cipcode/>.

Attach the "Substantive Change Application–General Questions" as page one of your application. That completed form and your answers to the questions below will constitute your request for approval of a substantive change. It will be provided to future HLC review processes.

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Name of Institution: Barton County Community College

**Part 1. Characteristics of the Change Requested**

1. Identify the basic characteristics of the proposed educational program as indicated below:
  - a. the full name of the proposed program, the specific degree (if applicable) or the instructional level (if not a degree program), and the six-digit CIP code XX.XXXX of the program [CIP codes, program name, and additional description (optional)]  
Associate in Applied Science in Technical Studies, 30.9999
  - b. the total credit hours (indicate whether semester or quarter) for completion of the program  
60 credit hours -- semester
  - c. normal or typical length of time for students to complete the program  
2 years or 4 semesters
  - d. the proposed initial date for implementation of the program  
January 1, 2014
  - e. the primary target audience for the program (e.g., full-time, part-time, traditional college age, working adults, transfer students, military personnel, or particular ethnic group)  
Military personnel
  - f. the projected life of the program (single cohort or ongoing)  
Ongoing
  
2. If 50% or more of the proposed program will be offered at a location or locations other than the main campus (i.e., existing additional location or branch campus already approved by the Commission), please list the program and location.
  - Fort Riley
  - Grandview Plaza
  - Fort Leavenworth

3. If the proposed program will be offered via alternative delivery method (hybrid, online, ITV, accelerated, etc.), identify the maximum number of credit hours that may be earned in the program through each method.

N/A

4. Identify whether credit for evidence of prior learning (other than credit transferred from formal courses or awarded from Advanced Placement) will be accepted, and if so, for what number of credits.

No

5. If you are planning any involvement by external organizations (other than accredited higher education institutions) in key operations as identified below, provide the information requested for each planned involvement. (Note that such involvement by a parent company or by one of its subsidiaries external to the institution in any of these operations should be reported.)

Type of involvement	Name(s) of external organization(s)	% of Involvement
A. Recruitment and admission of students	N/A	N/A
B. Course placement and advising of students	N/A	N/A
C. Design and oversight of curriculum	N/A	N/A
D. Direct instruction and oversight	N/A	N/A
E. Other support for delivery of instruction	N/A	N/A

6. If you are planning any involvement with other accredited higher education institutions in key operations identified above, provide the name(s) of the other institutions and the nature of the involvement.

**Part 2. Institution's History with Programs**

7. Does the institution currently offer a program at the same instructional level and with the same 4-digit CIP code (XX.XX) as the proposed program? If so, identify the program currently offered and whether it is a degree program. Will the proposed program replace the program currently offered?

No

8. Does the institution currently offer two or more programs at the same instructional level with same 2-digit CIP code (XX.) as the proposed program? If so, identify the two such programs with the highest numbers of graduates during the past year, along with their numbers of graduates.

No. While the degree is made up of several certificates, nothing we currently offer has the same 2-digit CIP of 30.9999.

**Part 3. Institutional Planning for Program Change**

9. What impact might the proposed program(s) have on challenges identified as part of or subsequent to the last comprehensive visit or reaffirmation panel and how has the institution addressed the challenges?

There will be little impact as the program was already being offered as three separate certificates

10. What is the impact of the proposed program on existing programs in terms of finances, enrollment, and staffing?

Per Kansas Board of Regents - Colleges will utilize existing faculty, equipment and labs to deliver the technical coursework.

11. What are the physical facilities and equipment needed to support the program? Indicate the impact that the proposed change will have on the physical resources and laboratories that currently accommodate existing programs and services, or identify new laboratory and preceptor needs.

Per Kansas Board of Regents - Colleges will utilize existing faculty, equipment and labs to deliver the technical coursework.

12. What is the evidence that a market for the new program(s) exists? How has estimated program demand been factored into realistic enrollment projections? How have planning and budgeting processes used this evidence to develop a quality program that can be sustained?

Per Kansas Board of Regents approved technical programs and their associated courses will be used by the colleges to structure a specific program of study to meet the needs of students seeking to develop skills and competencies in two technical disciplines.

13. If the Higher Learning Commission approves your program request, what future growth do you anticipate (e.g., in the next six months, three years, 10-20 years)?

It is the Kansas Board of Regent's hope that students who are already completing the certificate programs will be retained so as to complete their AAS with just a few additional credits.

14. How do you plan to manage this growth?

All classes and certificates needed to successfully complete the degree are currently offered. The additional workload would be in student advisement which we have a full time staff member who would advise the students. Currently students complete the certificates but are unable to complete a degree unless they transfer to another discipline. As for the increase in enrollments we currently have 8 full time faculty and 10 associate faculty teaching in the program with additional associate faculty available to teach as needed.

15. What financial support and resources are in place to sustain the proposed program? Outline your plan indicating revenue/expense, staffing, and enrollment projections for the first five years of operation showing both gross income and gross projected expenses.

Per Kansas Board of Regents – Barton will incur ***no additional cost*** to offer the proposed program.

16. How do you assure that promotion, marketing, and enrollment for your program stay in balance with your actual resources and technical capabilities?

The degree will be marketed along with the certificates already offered.

17. What controls are in place to ensure that the information presented to students in advertising, brochures, and other communications will be accurate?

We share the course description with students/public, anyone promoting. Full syllabi are available upon request. The description is what we place on printed material.

#### **Part 4. Curriculum and Instructional Design**

18. Please list all the courses that comprise the program. Include course descriptions and number of credit hours for each.

See attached, Document 1

19. What are the requirements students must fulfill to complete the program successfully (including specific courses, course options, and any other requirements)?

Students completing this degree must complete a minimum of fifteen credit hours from each of at least two disciplines (minimum of 30 credit hours) and a minimum of at least 15 general education courses. See attached, Document 2.

20. For programs using prior learning credit, compressed time frames, online delivery, accelerated formats, or other innovative approaches to learning, describe the methodology for determining that levels of knowledge and competencies comparable to those required in traditional formats have been achieved.

Some courses are offered all day for one week, this is to accommodate the schedules of military personal. Seat time is still met and students are fully aware of the compressed offering.

#### **Part 5. Institutional Staffing and Faculty Support**

21. How many and what types (full-time, part-time, adjunct) of faculty will be employed in the program? Why is the number of full-time faculty members adequate to support the program?

**Program (Technical Education):** Associate of Applied Science in Technical Studies

- a. Military Logistics Certificate

- b. Military Leadership Certificate
- c. Military Dangerous Materials Handling Certificate

**Program Faculty Employed in Program:**

- a. Full-Time - 8
- b. Part-time - 1
- c. Adjunct - 9

**Full-time Faculty Support** – The number of full-time faculty employed in the program adequately supports current demand for scheduled and unscheduled classes. Faculty to student ratio is approximately 1 to 15. In addition, full-time faculty provide the flexibility to participate in routine and non-routine course development, extensive course updates, and other faculty related administrative task that directly or indirectly support and enhance the quality of the program.

22. What will the impact of the new initiative have on faculty workload?

There will be little impact. The courses are being offered as part of several certificates. The courses will now apply toward a degree.

23. Provide a brief attachment that inventories each faculty member employed to teach in the program, including names of existing personnel, a description of each faculty member's academic qualifications, their prior instructional responsibility and other experiences relevant to the courses they will teach in the program in question, each faculty member's course load in the new program, and the course work each teaches in other programs currently offered.

See attached, Document 2.

24. For graduate programs, document scholarship and research capability of each faculty member; for doctoral programs, document faculty experience in directing student research.

N/A

**Part 6. Student Support**

25. What library and information resources—general as well as specific to the program(s)—and staffing and services are in place to support the initiative? If the proposed new program is at the graduate level, document discipline-specific refereed journals and primary source materials.

Computers are available for students needing to do research. Instructors are available after class as are support services workers. Local town and Military post host a library.

**Part 7. Evaluation and Assessment**

26. How will you monitor and evaluate the overall effectiveness and quality of the program?

Effectiveness will be evaluated with student and instructor evaluations. CATs.

27. How will you assess and ensure expected student learning and achievement?

Students are required to participate in an instructor evaluation at the end of each course. Results are then reviewed by the instructor and/or supervisor. Instructors also utilize Classroom Level Assessment tools to ensure coursework is appropriate and functional for learning.

28. Explain how the results of evaluation will be used to improve the program’s curriculum, teaching, services, and operations.

Results from the evaluations are reviewed by staff then compiled for advisory committee members and program faculty to review and provide recommendations for curriculum, instructional and equipment changes. Any service comments are reviewed by program directors, services and the dean for comments and recommendations. Faculty and staff meet quarterly to review all new evaluations and to assess progress of previous changes.

29. How will you assess and improve the learning of students in the program to ensure that they achieve the levels of performance that you expect and that your stakeholders require?

The college utilizes technical advisory committees as well as conducting employer surveys to gather program graduate satisfaction data as well as work place performance comments on graduates. The college also is involved in several national consortiums and focus groups that provide the latest regional and national industry trends affecting workplace training requirements. This consortiums also assist in the development of curriculum and training standards through regional industry specific Datum’s. Our instructors also attend regional training updates annually through the consortiums.

**Document 1**

## General Education Courses

SUBJECT	COURSE #	Title	Credits	Fulfills	Description
AGRI	1100	Agriculture in our Society	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	This course is designed for the student who wishes to learn more about the political, economic, social, historical, production, environmental, and international issues which affect our food supply today and will in the future.

Substantive Change Application: New Programs

AGRI	1114	Plant Science	0 to 5	Laboratory Course, Natural Science Requirement	A study of the principles of production of economic plants including morphology, taxonomy, physiology, ecology, propagation, preservation, and storage.
AGRI	1116	Prin of Agriculture Economics	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	A study of economic principles with emphasis on their application to the solution of farm, agribusiness and agricultural industry problems in relationship to the sectors of the U.S. economy and foreign countries.
ANTH	1816	Cultural Anthropology	1 to 3	Depth course AA, AS, AGS, AAS, Social Science Requirement	A survey of culture and its importance for man and his society viewed through both past and present.
ANTH	1819	World and Regional Geography	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	This course is designed as an introductory geographic survey arranged around the eight major regions: Anglo-American, Latin American, Europe, the former Soviet Union, The Middle East, The Pacific World, and Africa. Emphasis is placed upon an analysis of the natural environment, cultural environment, population status, economic development and potentials.
ARTS	1200	Art Appreciation	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	This course is an introduction to art appreciation intended to provide a foundation in the basic concepts, materials and processes of the visual arts, as well as a brief history of art in Western and non-Western societies. Through analysis of examples drawn from the past and the present, it assists the student in recognizing the universal qualities in human aesthetic response and the special differences that define every culture.

ARTS	1201	Art History Survey I	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	<p>This course is an introduction to the first half of art history. It consists of a study of the art produced from prehistoric times through Gothic period. The course will study the evolution of architecture, sculpture, painting, and the crafts. Patrons, techniques, values, concepts, philosophies, and materials used by artists will be studied. Major movements, themes, artworks and artists will be studied as well as how the art is a reflection of the society that produced it. This course will include the art and cultures of both Western and non-Western societies.</p> <p>This course is an introduction to the first half of art history. It consists of a study of the art produced from prehistoric times through the Gothic period. The course will study the evolution of architecture, sculpture, painting, and the crafts. Patrons, techniques, values, concepts, philosophies, and materials used by artists will be studied. Major movements, themes, artworks and artists will be studied as well as how the art is a reflection of the society that produced it. This course will include the art and cultures of both Western and non-Western societies.</p>
ARTS	1202	Design I	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	<p>This course is an introduction of two-dimensional composition through the study of the elements and principles of design. A variety of projects are assigned to explore each concept studied. Design is the use of the art elements arranged according to the principles. These basic concepts are fundamental to the development of artistic expression and interpretation. This course is a foundation on which other studio courses will build.</p>
ARTS	1203	Art History Survey II	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	<p>This course is an introduction of the second half of art produced from the late Gothic and early Renaissance period through the Modern Age. The course will study the evolution of architecture, sculpture, painting, and the crafts in the contact of the societies in which they were created. Patrons, techniques, values, concepts, philosophies, and materials used by artists will be studied. Major movements, works of art and artists will be studied. This course will include the art and cultures of both Western and non-Western societies.</p>

ARTS	1204	Design II	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	This course is an introduction to composition through the study of the elements and principles of three-dimensional design. A variety of projects are assigned to explore each concept studied, which includes the use of a variety of materials. The basic concepts of three-dimensional design are fundamental to the development of artistic expression and interpretation. This course is a foundation on which other studio courses will build.
ARTS	1205	Graphic Design	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	An introductory course to visual intelligence and graphic design problem solving. This course will emphasize a grasping of the fundamental techniques, concepts, and principles of visual communication. RESTRICTION: ARTS 1202 Design I, ARTS 1210 Drawing I, or Permission of Instructor.
ARTS	1206	Directed Independent Study/Art	1 to 3	Humanities Requirement, Studio Course (AA up to 3 hrs)	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, non-vocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
ARTS	1209	Watercolor Painting I	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	An introduction to the technique of painting in various water soluble media. Development of personal skills and techniques using water soluble media, primarily transparent watercolor, will be stressed.
ARTS	1210	Painting I	1 to 3	Humanities Requirement, Studio Course (AA up to 3 hrs)	An introduction to the techniques of painting in either oil or acrylic. Painting problems in the nature of still life, landscape or abstraction will be used to aid in the development of each student's expressive ability. The course will include a study of the technical processes of the media, a study of composition and instruction on framing and display of the work. Students are encouraged to work in their own chosen style because the course focuses on personal development.

Substantive Change Application: New Programs

ARTS	1211	Watercolor Painting II	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	Further exploration into the technique of painting in various water-soluble media, with attention being placed on the development of personal skills and techniques. The course will also be concerned with a study of some of the experimental techniques which can be used to produce a watercolor painting.
ARTS	1212	Painting II	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	The continued development of the processes and techniques of painting in either oil or acrylic. This course will deal with painting problems set up during a conference with the instructor. Emphasis will be placed on the advancement of expressive skills and development of an individual style.
ARTS	1214	Drawing I	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	An introduction to basic freehand drawing. Emphasis will be placed on object representation through descriptive and expressive means. The control of line, value, and spatial illusions will be worked on with a variety of media. The course will emphasize coordination of the eye and hand.
ARTS	1216	Drawing II	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	Further exploration of basic drawing through a study of form and space in a variety of drawing media and subjects.
ARTS	1217	Painting Seminar	1 to 3	Humanities Requirement, Studio Course (AA up to 3 hrs)	An advanced painting course concerned with a continued development of processes and techniques based on design fundamentals in painting. An in depth study of a particular technique and artist will be incorporated into the course. Emphasis will be placed on personal interpretation, creativity and development of an individual style.
ARTS	1222	Ceramics I	1 to 3	Humanities Requirement, Studio Course (AA up to 3 hrs)	This course is an introduction to the basic knowledge of clay and clay processes as applied in art/craft forms. Students will learn forming methods of pinch, coil, slab, and wheel construction. The nature and origin of clay will be studied. Surface decoration and glazing will be studied. Emphasis is on clay as an expressive art material.
ARTS	1223	Introduction to Ceramics	1	Humanities Requirement, Studio Course (AA up to 3 hrs)	Introduction to ceramics will familiarize the student with how ceramic studio functions. Emphasis will be learning about safety in the studio, ceramic materials and ceramic techniques. This introductory course includes how to process clay from its wet stage to its final firing in a kiln. The class will include demonstrations, lectures and hands on projects.

ARTS	1224	Ceramics II	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	An introduction to using the potter's wheel and further development of hand building techniques in clay. The emphasis is on clay as an expensive art material. Glaze formulation and firing procedures are studied. By expanding the knowledge of material and techniques, the student will explore how to give form to their imagination through clay.
ARTS	1225	Ceramics Seminar-Potters Wheel	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	An introduction to throwing various utilitarian forms on the potter's wheel. The development of personal skills and techniques using clay and the potter's wheel will be stressed. RESTRICTION: Consent of Instructor.
ARTS	1232	Individual Art Projects	1 to 3	Humanities Requirement, Studio Course (AA up to 3 hrs)	This course is designed for those individuals who have taken or most of the art courses and wish to continue their advancement in a particular area. The student will explore in depth specific media, subject matter, and techniques agreed upon with the instructor. The student will develop a higher level of ability to achieve visual communication with the form. RESTRICTION: Consent of Instructor.
ARTS	1234	Photography I	1 to 3	Humanities Requirement, Studio Course (AA up to 3 hrs)	To provide the basic skills in the technical processes of black and white photography. The course will cover film loading, picture taking, developing, printing, and mounting of the photograph. Photograph composition and the use of the photograph, as an art form will be studied.
ARTS	1235	Photography II	1 to 3	Humanities Requirement, Studio Course (AA up to 3 hrs)	A studio/discussion course in documentary and special effects photography. The course will involve short and long term projects (photo essays) dealing with nature and society, special effects, darkroom, digital manipulation, and processing procedures.
ARTS	1236	Photography Seminar	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	This course will provide further exploration of the technical and aesthetic aspects of photography as contemporary art medium. Color photography will be emphasized including developing and printing.

ARTS	1245	Computer Graphics	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	This computer art and design course is designed to introduce students to the basics of computer technology and how designers and artists use this tool to solve visual problems in graphic design and studio art. Emphasis will be placed on individual expression and acquiring skills to effectively communicate with the use of a computer. Students will be introduced to the fundamentals of computer graphics through lecture, presentations, discussion and hands-on experiences. RESTRICTION: ARTS 1202 Design I or ARTS 1205 Graphic Design or Consent of Instructor.
BUSI	1609	Business Statistics	0 or 3	Foundation Course AA, AS, AGS, A AS, Mathematics Requirement, Natural Science Requirement, Non-Laboratory Course	An introduction to the basic concepts of statistics related to business and economics including elementary descriptive statistics, probability, various distributions, confidence intervals, sampling methods, hypothesis testing, and correlation and regression.
BSTC	1036	Computer Concepts & Appl	3	Computer Literacy Requirement, Foundation Course AA, AS, AGS, A AS	This course is an introduction to basic computer concepts and includes hands-on use of microcomputers using common software applications. These software applications include typical features of office suites such as word processing, spreadsheets, database systems, presentation software, browsers, and other features found in current software packages. On course completion, students will understand common computer concepts and will be able to utilize common software applications.
CHEM	1801	Dir Ind Study/Chemistry	1 to 3	Natural Science Requirement, Non-Laboratory Course	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, non-vocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.

CHEM	1802	Fundamentals of General Chem	0 or 5	Laboratory Course, Natural Science Requirement	This one semester provides a survey of classical inorganic general chemistry with much less emphasis on problem solving and mathematics than the Principles sequence. Emphasis is given to the practical aspects of chemistry. This course is designed for those persons who need chemistry as a one-year terminal course, such as pre-agriculture, pre-baccalaureate nursing, home economics and similar majors.
CHEM	1806	College Chemistry I	0 or 5	Laboratory Course, Natural Science Requirement	This course stresses the conceptual and mathematical approach to understanding inorganic general chemistry and prepares students to follow a science-oriented four-year program. It provides students with the necessary tools to handle problems of both a theoretical and practical nature. The students taking this course are usually declared chemistry, physics, engineering, pre-med, etc., majors. RESTRICTION: High School Algebra II or Permission of Instructor.
CHEM	1808	College Chemistry II	0 or 5	Laboratory Course, Natural Science Requirement	This course stresses the conceptual and mathematical approach to understanding general chemistry and prepares the student to follow a science oriented four-year program. It provides students with the necessary tools to handle problems of both theoretical and practical nature. The students taking this course are usually declared Chemistry, Physics, Engineering, Pre-Med, etc., majors. This course is a continuation of College Chemistry I.
CHEM	1814	Organic Chemistry I	0 to 5	Laboratory Course, Natural Science Requirement	This course is the first half of a two-semester course in organic chemistry and provides students with the knowledge of the physical and chemical properties of carbon compounds with emphasis on the mechanisms of organic reactions, the nomenclature of the compounds, and methods of organic synthesis. This course is designed for those students who need a good understanding of organic chemistry. Laboratory is included. Three hours lecture and six hours of laboratory sessions per week.

CHEM	1816	Organic Chemistry II	0 or 5	Laboratory Course, Natural Science Requirement	This course is the second half of a two-semester course in organic chemistry and provides students with the knowledge of the physical and chemical properties of carbon compounds with emphasis on the mechanisms of organic reactions, the nomenclature of the compounds, the methods of organic synthesis. This course is designed for those students who need a good understanding of organic chemistry.
COMM	1200	Interpersonal Communication	3	Breadth course AA, AS, AGS, AAS, Foundation Course AA, AS, AGS, AAS, Humanities Requirement, Oral Communication Requirement	This course is designed to help students develop skills in communication and to acquire an understanding of verbal and non-verbal communications as a vital human relations factor in our society.
COMM	1201	Dir Ind Study/Communications	1 to 3	Depth course AA, AS, AGS, AAS, Humanities Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, non-vocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff. Restriction: Enrollment by consent of instructor.
COMM	1217	Nonverbal Communication	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course is designed to help students become more aware of nonverbal communication as a vital factor in human communication by studying the research, practice, and principles underlying nonverbal behaviors. Topics include kinesics, proxemics, paralinguistics, haptics, and olfactics.

Substantive Change Application: New Programs

COMM	1220	Organizational Communication	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	This course is designed to teach and analyze the functions of organizational communication necessary to obtain and become successful in an organizational setting. This includes maintaining effective employer/employee relationships, providing effective supervisory skills, using persuasion in the marketplace and business world, and understanding the non-verbal communication factors inherent within an organization.
COMM	1230	Public Speaking	3	Breadth course AA, AS, AGS,AAS, Foundation Course AA,AS,AGS,AS, Humanities Requirement, Oral Communication Requirement	This course includes a study of the theoretical principles underlying effective communicative behavior, and the practical application of those principles in various communicative exercises and assignments. The course is designed to increase the awareness of the importance of speech communication in today's society and develop competency of speakers.
DANC	1001	Perform w/Barton Dance Theatre	1 to 3	Performance Course, Physical Education Requirement	This course is a performance course designed for the pre-professional dance student to rehearse and perform with the Barton Dance Theater, the resident company of the Barton Department of Dance as a company member or apprentice. RESTRICTION: By Audition Only.
ECON	1607	Introduction to Economics	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	A basic one semester terminal course for students not in economics or business administration. Essential economic theory is developed and applies to scarcity, competition and monopoly, unemployment, inflation, and the economic role of government.
ECON	1610	Principles of Macroeconomics	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	An introduction to the basic history, principles, and problems of modern economics; determinants of national income, employment, resource allocation, and price level; the monetary and banking system; and economic instability.
ECON	1612	Principles of Microeconomics	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	An introduction to the market mechanism, price and distribution theory, public policy, international growth, and contemporary economic issues.

Substantive Change Application: New Programs

ECON	1615	Personal Finance	3	Depth course AA, AS, AGS, AAS, Social Science Requirement	This course is primarily concerned with the management of money from the viewpoint of the individual. Topics to be covered include the consumer's credit buying, borrowing, saving and investing, the purchase of insurance, real estate and other major items, and the problems of taxation and wills.
EDUC	1136	Children's Literature	3	Depth course AAS, Social Science Requirement	This course is a survey of children's literature with an emphasis on how to recognize, select, and present good literature, which motivates children in the reading process. This course is recommended for students majoring in English, library science, Early Childhood and/or Elementary Education, as well as, parents of young children. This course can be utilized as a general education course for humanities in the area of literature for students obtaining an AAS degree in Early Childhood.
ENGL	1107	Dir Ind Study/English	1 to 3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of the competencies associated with academic, non-vocational disciplines. Its purpose is to supplement extant English courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting, but will be appropriately directed and supervised by regular instructional staff.
ENGL	1200	Business English	1 to 3	Foundation Course AAS, Written Communication Requirement	This course stresses correct word usage, grammatical structure, punctuation and mechanics, and gives the students practice in writing various types of business communications. The course is recommended for business students who need more experience in Business English prior to their work experience.

ENGL	1204	English Composition I	3	Foundation Course AA, AS, AGS, AAS, Written Communication Requirement	An approach to purposeful writing stressing self-expression through written communication by logical presentation of ideas with emphasis on content, organization, and mechanics.
ENGL	1205	Technical and Report Writing	3	Foundation Course AAS, AGS, Written Communication Requirement	The course involves the study of various composition techniques vital to a technical or professional writer. Structure, terminology, and types of reports are studied in depth.
ENGL	1206	English Composition II	3	Foundation Course AA, AS, AGS, AAS, Written Communication Requirement	This course builds on the skills mastered in the pre-requisite course and is a study of advanced problems in composition, emphasizing rhetorical and logical tools in argument development. A series of essays on controversial issues or problems, which lead to a final documented research essay, train students both to interpret evidence well and to argue persuasively. The course will increase the student's ability to analyze and evaluate arguments and to express ideas clearly, concisely, logically and persuasively.
ENGL	1216	Creative Writing	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A special study of forms and practice in composition for students who wish to develop particular skills in the drama, short story, and poetry. From these skills, students will be introduced to skills needed in writing the novel.
ENGL	1236	Technical Communications	1 to 3	Foundation Course AAS, Written Communication Requirement	This course is designed primarily for the student who needs training and practice in writing skills pertaining to his own field. It will involve familiarity with the journals, with research techniques, report and letter writing, and basic mechanical skills.

LANG	1900	Elementary German I	3 or 5	Breadth course AA, AS, AGS,AAS, Humanities Requirement	An introductory course designed to develop the skills needed to communicate in German at a basic level in everyday situations. Throughout the course, emphasis will be placed on discussion skills, such as speaking, listening, and using cultural background information. Reading and writing skills, as well as a thorough study of basic grammatical structures, are also seen as essential to achieve the main objective of communication. Lab work, taped conversations, videos, and exercises accompanying the text reinforce classroom work. Supplementary materials to expand vocabulary and understanding of the German language cultures will be introduced at appropriate times.
LANG	1901	Conversational German I	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	Practice in everyday conversational German with emphasis on phrases and vocabulary useful for travelers and development of oral/aural skills in conversation on cross-cultural topics.
LANG	1902	Elementary German II	5	Breadth course AA, AS, AGS,AAS, Humanities Requirement	This is the second semester of German and is a continuation of Elementary German I. This course is designed to develop the skills needed to communicate in German at the basic level in everyday situations. Throughout the course, emphasis will be placed on discussion skills, such as speaking, listening and using cultural background information. Reading and writing skills, as well as a thorough study of basic grammatical structures, are also seen as essential to achieve the main objective of communication. Lab work, taped conversations and exercises accompanying the text reinforce classroom work. Supplementary materials to expand vocabulary and understanding of the German language cultures will be introduced at appropriate times.
LANG	1903	Conversational German II	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	Continuation of Conversational German I. Further study of spoken German and characteristics based on written text, audio-cassettes, and video-tapes relating to contemporary life in German-speaking countries.
LANG	1904	Intermediate German I	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course is a continuation of Elementary German II, using the same text.

Substantive Change Application: New Programs

LANG	1905	Intermediate German II	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course is a continuation of Intermediate German I, using the same text.
LANG	1908	Elementary Spanish I	5	Breadth course AA, AS, AGS,AAS, Humanities Requirement	An introductory course in Spanish in which four language skills are emphasized; initially listening and speaking, followed by reading and writing. Correct grammar, vocabulary, and pronunciation are stressed and mastered through exposure and practice in the language lab. Introduction to Hispanic culture and civilization through history, arts, literature, and cultural settings is included.
LANG	1909	Conversational Spanish	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	The student will be exposed to some 1200 high frequency words used in the Hispanic world including Mexico, all of South America, Cuba, and Spain. The student will be required to understand the Spanish thought processes and verbalize these thoughts. The student will be able to ask for the necessities of life if he or she were in an environment where Spanish was a necessary tool.
LANG	1910	Elementary Spanish II	5	Breadth course AA, AS, AGS,AAS, Humanities Requirement	A second semester in Spanish. Reading and writing skills are emphasized with listening and speaking skills included. Pronunciation is stressed. Some Hispanic culture is presented.
LANG	1911	Spanish for Communication	1 to 3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A course designed for oral communication with a minimum of grammar and written instruction. Designed for two-year students in social work, agriculture, and business with individualized material for each area.
LANG	1912	Intermediate Spanish I	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This is the third semester of Spanish and is a continuation of Elementary Spanish II. There will be a brief review followed by further study of grammar and pronunciation. Students will be expected to increase their activity in speaking and in writing original work. Additional books will be used to supplement the text. The study of Spanish culture and influence will continue.

LANG	1913	Intermediate Spanish II	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This is the fourth semester of Spanish and is a continuation of Intermediate Spanish I. After a brief review, the same procedure for previous semesters will be continued. Conversation will be emphasized. Additional sources will be used to supplement the text and to increase vocabulary. Students will be expected to write a paper in English on the subject of Spanish history or culture. Another shorter version of Spanish will also be written.
LANG	1914	Elementary French I	5	Breadth course AA, AS, AGS,AAS, Humanities Requirement	An introductory course in French in which the four language skills are emphasized initially listening and speaking, followed by reading and writing. Correct grammar, vocabulary and pronunciation are stressed and mastered through exposure and practice in the language lab. Introduction to French culture and civilization through history, arts, literature and cultural settings is included.
LANG	1916	Elementary French II	5	Breadth course AA, AS, AGS,AAS, Humanities Requirement	This is the second semester of French and is a continuation of Elementary French I. There will be further study of grammar and pronunciation, more emphasis on writing and speaking in everyday situation, more time spent in the lab and a more detailed study of French culture and civilization.
LANG	1925	Dir Ind Study/Foreign Language	1 to 3	Depth course AA, AS, AGS, AAS, Humanities Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, nonvocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
LANG	1929	Conversational Spanish II	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	This course is a continuation of LANG 1909 Conversational Spanish with further emphasis on understanding and speaking Spanish. This course will include additional vocabulary and grammar study along with additional practice in reading and writing in the Spanish language.

Substantive Change Application: New Programs

HLTH	1247	Lifetime Fitness and Wellness	1 to 3	PE/Health Course, Physical Education Requirement	This course will develop those basic fitness and wellness skills necessary for lifelong health and fitness. Lectures and laboratory sessions will be centered on practical knowledge and experiences. The course is designed to help each individual incorporate various types of physical activities into their lifestyle, fitness, health, and leisure recreation.
HLTH	1248	Personal & Community Health	3	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide a personal appreciation, understanding, and awareness for good health and well being by analyzing the causes and effects of major health problems in our society today.
HLTH	2247	Lifetime Fitness and Wellness	2	PE/Health Course, Physical Education Requirement	This course will develop those basic fitness and wellness skills and behaviors necessary for lifelong health, fitness, and well-being. Lecture sessions will cover how to develop a personal lifetime program that promotes fitness, preventive health care and personal wellness. Through supervised circuit training and other exercise activities, students will evaluate and develop their muscle tone, cardiovascular endurance, flexibility, and body composition.
HIST	1400	American History to 1877	3	Breadth course AA, AS, AGS, AAS, Humanities Requirement	The history of America will be examined from the early arrival of the colonists through the American Civil War and its reconstruction period. Political, social, economic, cultural, and religious forces that have shaped American History will be studied. The course provides a foundation for understanding the basics of American History.
HIST	1402	American History 1877-Present	1 to 3	Breadth course AA, AS, AGS, AAS, Humanities Requirement	American History 1877-Present is a study of social, economic and political developments in American society from the end of the Civil War reconstruction (1877) to the present.
HIST	1404	American West	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A study of the significance of the West in American History during the 19th Century. The American West is not intended for fulfillment of any general requirement of three hours in American History. It is primarily for students interested in such a course as an elective.
HIST	1406	History of Kansas	1 to 3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A study of the cultural, social, economic, and political developments in Kansas society from pre-history to the present.

Substantive Change Application: New Programs

HIST	1408	Western Civilization to 1500	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	The major trends in Western Civilization from ancient times through the Renaissance will be examined. The ideas and forces that have produced major changes in western man's civilization will be emphasized.
HIST	1410	Western Civilization 1500-Pres	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	This course is a continuation of HIST 1408 Western Civilization to 1500. HIST 1410 will cover Western Civilization from 1500 to the present. It is the intent of the course to introduce students to the broad sweep of Western civilization. The course is focused on examining Western heritage from the historical perspective. The class will examine social history as a core element, but extensive attention is given to economic, political, cultural, and intellectual developments.
HIST	1416	American Military History	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	This course is designed to present a balanced history of the Army from its beginnings through the post Vietnam era, with appropriate attention to peacetime as well as wartime achievements.
HIST	1425	Women & The American Experience	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course is an introduction to the history of women in America. The primary focus is that of the experience of American women in the areas of family life, economic life, and public life. Special attention will be given to the diversity of class, race, and region. Topics are covered which give women's history its distinctive character.
HIST	1450	History of World Civ to 1500	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	It is the intent of this course to introduce students to the broad sweep of world civilizations. The course is focused on examining heritage of world civilizations from the historical perspective. The class will examine the history of world civilizations from social, economic, political, cultural, and intellectual perspectives.
HIST	1452	History of World Civ 1500-Pres	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	History of World Civilizations 1500 to Present will cover world civilizations from 1500 to the present. It is the intent of the course to introduce students to the broad sweep of western civilizations. The course is focused on examining heritage of world civilizations from the historical perspective. The class will examine the history of world civilizations from social, economic, political, cultural, and intellectual perspectives.

HIST	1460	Military Hist/Amer Revolution	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course presents the military history of the American Revolution through the detailed examination of the strategy, operations, battles, and leadership of the war.
HIST	1461	Military Hist/Amer Civil War	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course presents the military history of the American Civil War. While such topics as the cause of the war and the relative strengths and weaknesses of the North and South will be addressed, the focus of the course will be the major campaigns and battles of the Civil War. Campaign/battle studies will not consist merely of an examination of the events of the campaign/battle. They will include that of the course, but also a great deal more. In addition they will include discussions of the events that precipitated each campaign/battle; examinations of the strategy, tactics, and leadership of the belligerents; and evaluations of the result of the battle on the belligerents.
HIST	1462	Military Hist/First World War	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course presents the military history of World War I. As background for the war, this course will first examine the political, diplomatic, economic, and military events from 1914 to 1919 that led to the war. The course will then cover the major campaigns and battles in all the major theaters of the war. The campaign/battle studies will not consist merely of an examination of the events of each campaign/battle, but will also examine the political, diplomatic, economic, and strategic context in which they occurred. Thus, the campaign/battle studies will address the events that precipitated each campaign/ battle; the strategy, tactics, and leadership of the belligerents; and the result of the battle of the outcome of the war.

HIST	1463	Military Hist/Second World War	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course presents the military history of World War II. As background for the war, this course will first examine the political, diplomatic, economic, and military events from 191 to 1941 that led to war in both the Pacific and European Theaters. The course will then concentrate on the military, naval, and air campaigns and battles from 1941 to 1945. This portion of the course will cover the major campaigns and battles in all the major theaters of the war. The campaign/battle studies will not consist merely of an examination of the events of each campaign/battle. The student will also examine the political, diplomatic, economic, and strategic context in which they occurred. Thus, the campaign/battle studies will address the events that precipitated each campaign/battle; the strategy, tactics, and leadership of the belligerents; and the result of the battle on the outcome of the war.
HIST	1465	Military Hist/Vietnam War	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course presents the history of the Vietnamese War. As background for the war, this course will first examine the political, diplomatic, economic, and military events from 191 that led to the development of Vietnamese Nationalism and American administrations. Military strategy will be discussed along with the political, diplomatic, and economic context in which it occurred. The anti-war movement, public opinion, literature and the media and the war will be discussed. Finally, the peace accords, which may or may not have worked from this conflict, will be studied along with a look at the consequences of the conflict and the lessons learned.
JOUR	1204	Introduction to Broadcasting	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	This is an introductory course in broadcasting. It examines the tools, techniques and applications necessary in today's age of broadcasting.
JOUR	1700	Intro to Mass Media	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	This course is designed to look at the media from a structural and descriptive point of view. It will stress the newspaper, television, and radio, and will show their role in our society.

JOUR	1703	Dir Ind Study/Journalism	1 to 3	Depth course AA, AS, AGS, AAS, Humanities Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, non-vocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
JOUR	1704	Beginning Reporting	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	The basic journalistic writing course will cover news writing from all branches of the news media with emphasis on newspaper writing. It will emphasize gathering and writing actual news stories from campus and community resources.
LEAD	1000	Intro to Leadership Concepts	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course studies leadership styles, skills, roles, and functions of leaders of organizations. Students will gain a broad understanding of the history and origins of leadership, theoretical approaches to leadership, and ethical issues facing contemporary leaders. Students will also develop a personal philosophy of leadership, an awareness of one's own style of leadership. This program integrates readings from the humanities, classic works of literature, contemporary multicultural writings, and experiential learning exercises with readings and discussions of traditional leadership theories. This course will utilize the acclaimed Phi Theta Kappa Leadership Development program curriculum.
LIFE	1402	Principles of Biology	0 to 5	Laboratory Course, Natural Science Requirement	The course introduces the student to the unifying principles common to all levels of biological organization. Emphasis is placed on the cellular, organism and population levels with inquiry into the nature of scientific investigation. This course is designed to provide students with a biological frame of reference in a liberal education as well as for students selecting additional courses in the department of biology.

LIFE	1406	Principles of Botany	0 or 5	Laboratory Course, Natural Science Requirement	This course is a survey of the plant kingdom. Emphasis is placed on the significance of plants to human life. A study of the cell, plant structure and function, genetics, evolution, classification, and ecology are included.
LIFE	1407	Anatomy & Physiology I	0 or 4	Laboratory Course, Natural Science Requirement	This course represents the first of an eight (8) credit hour Anatomy and Physiology course. The student is expected to enroll in the second half of the course (1409) during the same academic year, and both courses (1407 and 1409) must be complete to complete the eight credits our sequence in Anatomy and Physiology. Lecture and lab studies will include organization of the body; cells; tissues; membranes and glands; skeletal; muscular; nervous; sensory and endocrine systems.
LIFE	1408	Anatomy & Physiology	0 to 5	Laboratory Course, Natural Science Requirement	The aim of this course is to provide the student with a knowledge of the structure and function of the human body. Emphasis is on the study of function in the body and a basic knowledge of gross anatomy. Laboratory work will include a study of the major body systems.
LIFE	1409	Anatomy & Physiology II	0 or 4	Laboratory Course, Natural Science Requirement	This course represents the second half of an eight (8) credit hour Anatomy and Physiology course. The student is expected to have successfully completed the first half of the course (1407) during the same academic year, and both courses (1407 and 1409) must be complete to complete the eight credit hour sequence in Anatomy and Physiology. Lecture and lab studies will include: the cardiovascular system, lymphatic system, respiratory system, digestive system, metabolism, urinary system, electrolyte and acid-base balance and reproductive systems.

LIFE	1410	Principles of Zoology	0 or 5	Laboratory Course, Natural Science Requirement	This course is designed to introduce the student to the fundamental concepts and principles of animal biology and to be aware of the relationship of these principles to man. Laboratory study of animals, representing the gross and microscopic anatomy, physiology, classification, and ecology will be included. The approach will be from the single celled to the complex organism.
LIFE	1411	Anat/Physiol-PreHospit Provide	4	Natural Science Requirement, Non-Laboratory Course, Natural Science checkw/advisor	This course will provide the student with a working knowledge of the structure and function of the human body. Emphasis is on the study of function in the body and a basic knowledge of gross anatomy. All concepts in this course will then also be related to the sick and injured patients commonly seen in the pre-hospital emergency environment. Prerequisite: Consent of Instructor
LIFE	1412	Principles of Microbiology	0 or 5	Laboratory Course, Natural Science Requirement	Microbiology is the study of microorganisms and their role in the world around us. This course includes a study of bacterial relation to their physiology, morphology, taxonomy, life cycle and economic influences. The students will acquire skills in performing lab techniques involved in the culturing and studying of microorganisms. The course is designed to meet the requirements of those interested in biology and allied health programs.
LIFE	1413	Environmental Science	3	Laboratory Course, Natural Science Requirement, Non-Laboratory Course	A study of current environmental conditions, issues, and problems. Students will study the different types of ecosystems, the use and availability of natural resources, population dynamics, and environmental risks. Students will also explore possible solutions to such environmental issues such as global warming, acid rain, extinction of species, and energy waste by examining current specific and political thought.
LIFE	1414	Environmental Science Lab	2	Laboratory Course, Natural Science Requirement	This course covers lab procedures that are commonly used to determine the quality of our environment. Students will perform quantitative and qualitative experiments on air, water, food, and soil to determine environmental quality.

LIFE	1416	Independent Sty in Bio Science	1 to 3	Natural Science Requirement, Non-Laboratory Course	A subject of biological science, selected by the student in conjunction with the instructor, will be researched extensively by experimentation and/or reading.
LIFE	1425	Residential Energy Efficiency	3	Natural Science Requirement, Non-Laboratory Course	This course is designed to provide the student with information on the principles, methods and materials that have proven to be effective in improving the energy efficiency of residential buildings. All necessary components of effective use of energy in residential buildings will be covered.
LIFE	1426	Renewable Energy Sources	3	Natural Science Requirement, Non-Laboratory Course	This course provides a comprehensive overview of renewable energies, including solar energy, wind power, hydropower, biomass, and alternative fuels. Students will be taught the principles of basic solar design, solar hot water, pool and spa heating and solar cooling. Students will learn how to assess the viability of wind power, hydropower or biomass system for a given location. Students will also learn about impact of government regulations on the use of renewable and fossil fuels. Students will analyze these renewable energy systems and will calculate savings factors; backup energy needs, financing options, and economic analyses.
LITR	1210	Intro to Literature	3	Breadth course AA, AS, AGS, AAS, Humanities Requirement	This course is designed to develop greater appreciation through the study of selected short stories, novels, poetry, and drama. The literature will be used as a vehicle to examine universal themes basic to the human condition and to investigate these themes as they relate to life experiences. Students will gain a deeper understanding of literary concepts so that they will be able to interpret, analyze, and critically evaluate selections from this genre.
LITR	1212	The Short Story	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A careful examination of numerous short stories, for interest and artistic excellence. The purposes of this course are to increase the student's pleasure and sensitivity in short literature, to awaken interest materials and forms of fiction, and to increase understanding of the problems of life.

LTR	1215	World Literature	3	Breadth course AA, AS, AGS, AAS, Humanities Requirement	This course is a study of literature from several countries and regions, by diverse authors, and of a variety of literary types. The literature will be used as a vehicle to examine universal themes basic to the human condition, to investigate the breadth of human diversity, and to increase awareness of human values, attitudes, and behavior throughout the world.
LTR	1217	Dir Ind Study/Literature	1 to 3	Depth course AA, AS, AGS, AAS, Humanities Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, nonvocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
MATH	1806	Technical Mathematics	1 to 3	Foundation Course AAS, AGS, Mathematics Requirement	This course covers the mathematics needed by students enrolled in technical or trade programs. The emphasis will be on application in solving problems encountered in vocational fields; the student will be exposed to a broad coverage of arithmetic, algebra, geometry and basic statistics. The metric system and measurement techniques will also be covered.
MATH	1819	Business Mathematics	3	Foundation Course AAS, AGS, Mathematics Requirement	This course deals with fundamental mathematical concepts useful for business decision making. Students will learn the mathematics involved in discounts, markups and markdowns, banking, simple and compound interest, annuities, payroll, inventory and depreciation.
MATH	1824	Intermediate Algebra	3	Foundation Course AAS, AGS, Mathematics Requirement	Topics include properties of real numbers, linear and quadratic equations, equations of lines, operations on polynomials and factoring, operations on rational expressions, functions, graphs of linear and quadratic functions, complex numbers, integer and rational exponents, radicals, systems of linear equations, and linear and quadratic inequalities.

MATH	1826	Intermediate & College Algebra	5	Mathematics Requirement	A study of Intermediate and College Algebra including real number properties, products and factoring, fractions, exponents and radicals, linear and quadratic equations, functions and graphs, higher degree equations, systems of equations, logarithms, mathematical induction, and the binomial theorem.
MATH	1828	College Algebra	3	Foundation CourseAA,AS,AGS,AS, Mathematics Requirement	A study of polynomial, rational, exponential, and logarithmic functions and their graphs; complex numbers, systems of equations and inequalities, and an introduction to matrices and determinants. Additional topics may include conic sections, partial fractions, sequence and series, discrete mathematics, probability, and the binomial theorem.
MATH	1829	Elements of Statistics	0 or 3	Foundation CourseAA,AS,AGS,AS, Mathematics Requirement, Natural Science Requirement, Non-Laboratory Course	The course will cover elementary descriptive statistics, probability, various distributions, confidence intervals, sampling methods, hypothesis testing, and correlation and regression.
MATH	1830	Trigonometry	3	Foundation CourseAA,AS,AGS,AS, Mathematics Requirement, Natural Science Requirement, Non-Laboratory Course	A study of the trigonometric functions, identities, complex numbers, and solutions of triangles.
MATH	1831	Business Calculus	3	Foundation CourseAA,AS,AGS,AS, Mathematics Requirement, Natural Science Requirement, Non-Laboratory Course	A condensed study of differential and integral calculus with an emphasis on applications in the areas of business and economics.
MATH	1832	Analytic Geometry-Calculus I	5	Foundation CourseAA,AS,AGS,AS, Mathematics Requirement, Natural Science Requirement, Non-Laboratory Course	A study of limits, differentiation, definite and indefinite integration of polynomial, trigonometric, exponential, logarithmic and inverse trigonometric functions.

MATH	1853	Math for the PreHospital Provd	3	Foundation Course AAS, Mathematics Requirement, Math check w/advisor	This course will provide the student with a working knowledge of all math formulas and equations relative to patient care in the pre-hospital emergency environment. Students will participate in mathematics and fractions review, learn systems of measurement, and drug dosage calculations in for the non-emergency and emergency environments. Prerequisite: Consent of Instructor
MUSI	1001	Dir Ind Study/Instr Music	1 to 3	Performance Course, Physical Education Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, nonvocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
MUSI	1002	Introduction to Music	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	A humanities course designed for the non-music major. A background in music is not necessary for enrollment. Emphasis is placed on the development of competence in listening to music through the study of the sources, mediums, elements of music, musical forms, composers, and periods of music.
MUSI	1003	Dir Ind Study/Vocal Music	1 to 3	Performance Course, Physical Education Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, nonvocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
MUSI	1004	Intermediate Guitar	1	Performance Course, Physical Education Requirement	A course on acoustical guitar designed to teach the intermediate student in the open classroom through the personal touch blended with audio-visual teaching.

Substantive Change Application: New Programs

MUSI	1006	Community College Orchestra	1	Performance Course, Physical Education Requirement	Designed for the study of orchestra music for college and community participants. Literature from the various periods of music will be studied with concerts to be given in the fall and spring. College and community participants may play wind, string, or percussion instruments. No fee is charged unless the course is taken for credit.
MUSI	1008	Band	1 to 2	Performance Course, Physical Education Requirement	. Performance of music common in the field of concert band literature.
MUSI	1009	Jazz Ensemble	2	Performance Course, Physical Education Requirement	Rehearsal scheduled for three hours every week with extra rehearsals called. Performances are scheduled playing music on the stage band repertoire. RESTRICTION: Audition or Consent of Instructor.
MUSI	1010	Choir	1 to 2	Performance Course, Physical Education Requirement	The Barton County Community College Choir is open to all students and requires no audition for membership. Music literature to be performed is carefully selected from many stylistic periods and is rehearsed utilizing those choral techniques necessary for high-level performance standards. The choir will appear in concert several times during the academic year both on and off campus.
MUSI	1014	Vocal Ensemble	1 to 2	Performance Course, Physical Education Requirement	This ensemble is comprised of students selected from the college by auditions held in the fall. Enrollment is for a full academic year. The primary purpose of the group is to perform music selected for audience appeal. Numerous performances are scheduled for civic clubs, conventions, and high schools in the areas served by the college. RESTRICTION: By Audition.
MUSI	1034	Harmony IV	3	Performance Course, Physical Education Requirement	Harmony IV is the last in a sequence of four music theory courses designed for music majors or teachers highly interested in music. This course includes a study of altered chords not previously covered, advanced modulations and a survey of twentieth century compositional techniques. Keyboard application of course work is integrated with class piano laboratory work.

Substantive Change Application: New Programs

MUSI	1040	Class Voice	1	Performance Course, Physical Education Requirement	This class is designed for an instrumental or keyboard music major or someone desiring to improve his or her singing and has not had previous study. This class will meet three times a week for a minimum of one and a half hours, containing no more than four to six students as a maximum. If possible, voice would be placed in high or medium low range.
MUSI	1044	Class Piano B	1 to 2	Performance Course, Physical Education Requirement	This course is the second semester of a sequential study to provide the fundamental skills to meet piano proficiency requirements for the music major. It is integrated with the harmony and aural skills course offered in the music curriculum.
MUSI	1045	Adult Intermediate Piano	1 to 2	Performance Course, Physical Education Requirement	This course is for anyone who has had Adult Beginning Piano and would like to further knowledge of the piano. Familiar tunes along with some classics are studied. Music theory is presented.
MUSI	1046	Class Piano C	1 to 2	Performance Course, Physical Education Requirement	This course is a third semester of a sequential study to provide the fundamental skills to meet piano proficiency requirements for the music major. It is integrated with the harmony and aural skills course offered in the music curriculum.
MUSI	1048	Class Piano D	1 to 2	Performance Course, Physical Education Requirement	The course is a fourth semester of a sequential study to provide the fundamental skills to meet piano proficiency requirements for the music major. It is integrated with the harmony and aural skills course offered in the music curriculum.
MUSI	1049	Applied Piano-Adults	1 to 2	Performance Course, Physical Education Requirement	This course is designed to enable adults with previous keyboard experience to redevelop technical skills and broaden the scope of repertoire through solo and ensemble experiences, group and private lesson combinations. RESTRICTION: This course is for non-music majors.
MUSI	1051	Applied Piano	1 to 5	Performance Course, Physical Education Requirement	This course is designed to assist the more proficient pianist to perform from moderately difficult standard repertoire to more difficult recital repertoire. The performance on joint or solo recitals will entitle the student to earn up to five hours credit each semester. This will be done with the consent of the instructor. The serious pianist is encouraged to consider the lesson for two hours credit each semester. RESTRICTION: Piano skills equivalent to a minimum of four to five years of piano study.

MUSI	1052	Organ	1 to 5	Performance Course, Physical Education Requirement	This course is designed to teach beginning fundamentals of articulation, pedaling, registration, service playing, knowledge of the instrument, and accompanying on the organ. Service as well as recital repertoire is covered. Teaching is done in private and class settings. The student will be scheduled for one-hour lesson weekly with a minimum of five hours of outside preparation expected each week for two credit hours. RESTRICTION: Piano skills equivalent to a minimum of four to five years of piano study.
MUSI	1054	Applied Music Individual-Flute	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1056	Applied Music Indiv-Clarinet	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1058	Applied Music Indiv-Oboe	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1059	Applied Music Indiv-Bass	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.

MUSI	1060	Applied Music Indiv-Bassoon	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1061	Applied Music Indiv-Violin	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1062	Applied Music Indiv-Percussion	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1063	Applied Music Indiv-Viola	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1064	Applied Music Indiv-Trumpet	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1065	Applied Music Indiv-Cello	1 to 2	PE/Health Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.

MUSI	1066	Appl Music Indiv-French Horn	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1068	Applied Music Indiv-Trombone	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance recital at request of instructor.
MUSI	1070	Applied Music Indiv-Tuba	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1072	Applied Music Indiv-Saxophone	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1074	Applied Music Indiv-Baritone	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.
MUSI	1075	App Music Ind Classical Guitar	1 to 2	Performance Course, Physical Education Requirement	Provides the student a thirty-minute individual lesson per week per credit hour. Study is planned with emphasis on tone production through proper application of principles specific to the instrument. Development of basic techniques through the study of scales and arpeggios in all keys. Performance on recital at request of instructor.

MUSI	1076	Applied Music Indiv-Jazz Piano	1 to 2	Performance Course, Physical Education Requirement	Provides the student a sixty-minute individual lesson per week. Study is planned with emphasis on tone production through proper application of principles of embouchure and breath support. Development of basic techniques through the study of scales and arpeggios in all keys. Performance recital at request of instructor.
MUSI	1086	Jazz Improvisation I	1 to 2	Performance Course, Physical Education Requirement	A humanities course open to students with the ability to play keyboard, wind or percussion instrument, and a desire to learn improvisation techniques in the various jazz idioms. The class is a laboratory type, which meets two times a week.
MUSI	1088	Jazz Improvisation II	1 to 2	Performance Course, Physical Education Requirement	A continuation of Jazz Improvisation I.
PHIL	1602	Introduction to Philosophy	3	Breadth course AA, AS, AGS, AAS, Humanities Requirement	A course designed to introduce the student to various intellectual problems and questions that have confronted mankind since his beginning. Philosophical problems as well as methods of solving these problems will be discussed. This course is designed to help the student understand the integral place philosophy has in institutions of higher learning.
PHIL	1603	Dir Ind Study/Philosophy	1 to 3	Depth course AA, AS, AGS, AAS, Humanities Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, nonvocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
PHIL	1604	Systematic Ethics	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course will examine the historical systems of ethical thought, considering the strengths and weakness of each in order to assist the student to understand the basis of ethical behavior and theories.

Substantive Change Application: New Programs

PHIL	1605	Reason and Argument	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	This course is a study of how we can (and do) reason about a aspects of our lives. Students learn how to both create logical consistent arguments and also to break down arguments presented by others so as to judge their logical validity. Specific subjects in the course include inductive fallacies, generalization, induction, analogies, and cause/ effect, as well as a study of formal (or propositionally deductive) logic.
PHED	1202	Bowling	1	PE/Health Course, Physical Education Requirement	This course is designed to give a person the skill, techniques, and the knowledge necessary to enjoy bowling.
PHED	1204	Advanced Bowling	1	PE/Health Course, Physical Education Requirement	This course is designed to give those who know how to bowl the advance techniques of spare pick-up and strike bowling.
PHED	1206	Golf	1	PE/Health Course, Physical Education Requirement	This course will enhance the novice with an opportunity to learn the language and strategy of golf and to develop the skill necessary so that it can be enjoyed in leisure time.
PHED	1208	Advanced Golf	1	PE/Health Course, Physical Education Requirement	The advanced golf class is a continuation of the study of golf, with emphasis on theories, techniques, and stroke analysis.
PHED	1210	Tennis	1	PE/Health Course, Physical Education Requirement	This course is designed to teach a person the skill, techniques, and knowledge necessary to enjoy tennis.
PHED	1213	Self Defense	1	PE/Health Course, Physical Education Requirement	This course teaches self-defense for men and women. Since self defense involves direct contact between two or more individuals, psychological factors play a major role in the teaching of self defense. The basic art of knowing when a danger exists and how to avoid putting oneself in a position of potential danger will be stressed in this course along with the knowledge of escape to safety.
PHED	1214	Tae Kwon Do I	1	PE/Health Course, Physical Education Requirement	A system of defense and control techniques is based upon well established principles of hand-to-hand combat. The course involves defensive and aggressive physical maneuvers, armed and unarmed opponents, club maneuvers, development of muscular skill, and prevention of injury to the person.

Substantive Change Application: New Programs

PHED	1215	Tae Kwon Do II	1	PE/Health Course, Physical Education Requirement	Continued development of skills and techniques as learned in Karate I. Beginning development of sparring and application techniques.
PHED	1217	Fitness Thru Activities	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to acquaint students with the development of the fitness needs of the body, through total isokinetic-aerobic exercise. The class will give the student a carry-over value of physical education.
PHED	1218	Riflery	1	PE/Health Course, Physical Education Requirement	This course provides the fundamentals of firearm safety and rifle marksmanship. Twenty-two caliber rifles will be used on the six point indoor range.
PHED	1219	Target Shooting (Rifle-Pistol)	1	PE/Health Course, Physical Education Requirement	This course provides the fundamentals of firearm safety, along with rifle and pistol marksmanship. Twenty-two caliber rifles and pistols will be used on the six point, indoor range.
PHED	1221	Advanced Karate	1	PE/Health Course, Physical Education Requirement	Continued development of skills and techniques learned in Karate II. Continued development of sparring and application techniques. Students will work at their own pace toward advanced belt promotions.
PHED	1222	Beginning Swimming	1	PE/Health Course, Physical Education Requirement	For non-swimmers or novices. The beginning class stresses breath control, prone float, back float, human stroke, American crawl, treading water, backstroke.
PHED	1224	Intermediate Swimming	1	PE/Health Course, Physical Education Requirement	Incorporated in intermediate swimming are the following strokes: elementary back stroke, side stroke, back crawl, and breast stroke. RESTRICTION: PHED 1220 Beginning Swimming Proficiency in basic skills.
PHED	1225	Advanced Swimming	1	PE/Health Course, Physical Education Requirement	This course is a progression of swimming skills learned in PHED 1222 Beginning Swimming and PHED 1224 Intermediate Swimming.
PHED	1226	Lifeguard Training	1 to 3	PE/Health Course, Physical Education Requirement	This course provides the necessary minimum knowledge and skills training for a person to qualify as pool lifeguard. This course includes First Aid and CPR for the Professional Rescuer. American Red Cross Certificates will be issued. RESTRICTION: Proficiency in basic skills and pre-test.

Substantive Change Application: New Programs

PHED	1228	Water Safety Instructor	3	PE/Health Course, Physical Education Requirement	Methods and techniques used to teach progression swimming skills for all levels of swimming. The course provides the opportunity to receive water safety instructor's certificate. RESTRICTION: Be at least 17 years old at the start of the instructor course and successfully pass the pre-course written test and skills test.
PHED	1229	Scuba Diving	3	PE/Health Course, Physical Education Requirement	PADI Open Water Scuba Diving Course is designed to bring the student through a progressive series of knowledge and skill levels the student will need to safely visit and explore the underwater world. RESTRICTION: Ability to swim.
PHED	1232	Gymnastics & Tumbling	1	PE/Health Course, Physical Education Requirement	This course is an activity course designed to acquaint students with the necessary flexibility, control and strength to learn and perform gymnastics and tumbling.
PHED	1234	Weight Training	1	PE/Health Course, Physical Education Requirement	Weight Training is designed to acquaint the student with the basic knowledge, understanding and values of resistance exercises in developing general muscular and organic efficiency as well as conditioning.
PHED	1236	Advanced Weight Training	1	PE/Health Course, Physical Education Requirement	Advanced weight training is designed to allow the student who has taken beginning weight training to continue the program to a more advanced degree.
PHED	1239	Modern Dance	1	PE/Health Course, Physical Education Requirement	A dance class offering the basic concepts of modern dance. Very basic movement, steps, and combinations will be covered. Class participation is necessary. Through practical study the student should be able to learn basic rhythm and jazz movement for enjoyment and exercise. Modern dance will enable the students to express themselves through the medium of dance.
PHED	1246	First Aid Emergency Care	1 to 3	PE/Health Course, Physical Education Requirement	This course covers the knowledge and skills required to provide temporary and immediate care to a person who has been injured or who suddenly becomes ill. Successful completion of this course provides for certification in American Red Cross Community First Aid; and Adult, Child, and Infant CPR.
PHED	1271	Figure Improvement I	1	PE/Health Course, Physical Education Requirement	This course is designed for people who want to make exercise a significant factor in maintaining a physically fit body. Exercise is emphasized as a regular everyday routine. Diets, eating habits and behavioral techniques are discussed by the class as a group. Individual goals are set, and progress in achieving those goals is monitored during the semester.

Substantive Change Application: New Programs

PHEd	1272	Figure Improvement II	1	PE/Health Course, Physical Education Requirement	This course is an extension of Figure Improvement I. The class is designed for people who want to make exercise a significant factor in maintaining a physically fit body. Exercising is emphasized as a regular everyday routine. Diets, eating habits and behavioral techniques are discussed by the class as a group. Individual goals are set and progress in achieving those goals are monitored during the semester.
PHEd	1276	Aqua Aerobics	1	PE/Health Course, Physical Education Requirement	This course is designed to offer a total body conditioning program for a firm, trim figure and a health cardiovascular system. It incorporates the natural resistance of water to effectively trim and tone the entire body, especially thighs, hips, mid-section, upper body and arms.
PHEd	1280	Varsity Ath-Basketball (Men)	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHEd	1281	Varsity Ath-Basketball (Women)	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHEd	1282	Varsity Athletics-Baseball	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHEd	1283	Varsity Athletics-Softball	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHEd	1284	Varsity Ath-Cross Country	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHEd	1286	Varsity Athletic-Golf (Men)	1	PE/Health Course, Physical Education Requirement	Credit is received for participation in intercollegiate athletics
PHEd	1287	Varsity Tennis (Men)	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.

Substantive Change Application: New Programs

PHED	1288	Varsity Tennis (Women)	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHED	1290	Varsity Athletics-Track (Men)	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHED	1292	Varsity Athletic Track (Women)	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHED	1293	Varsity Athletics-Volleyball	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHED	1294	Varsity Athletics-Cheerleading	1	PE/Health Course, Physical Education Requirement	The purpose of this course is to provide student athletes the opportunity to participate in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHED	1295	Advanced Aqua Aerobics	1	PE/Health Course, Physical Education Requirement	This course is designed to offer a complete and effective conditioning program of physical fitness. It conditions your heart, lungs, and blood vessels by demanding that this internal life supporting system be strengthened through healthy use. It incorporates the natural resistance of water to effectively trim and tone the entire body, especially thighs, hips, mid-section, upper body, and arms.
PHED	1296	Varsity Athletics Soccer (Men)	1	PE/Health Course, Physical Education Requirement	Credit is received for participation in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHED	1297	Varsity Athletic Soccer(Women)	1	PE/Health Course, Physical Education Requirement	Credit is received for participation in intercollegiate athletics. RESTRICTION: Concurrent participation in that sport.
PHED	1301	Beginning Modern Dance	1	PE/Health Course, Physical Education Requirement	A dance class offering the basic concept of beginning modern dance. Very basic movement, steps, combinations, and routines will be covered. Through practical study the student should be able to learn basic rhythm and modern dance routines for enjoyment and exercise.

PHED	1313	Rhythm I	1	PE/Health Course, Physical Education Requirement	The course is open to students selected by audition at the beginning of the year, or recruited. Emphasis on fundamentals of precision dance and drill are basic to the course. The group will perform at basketball games, community and professional functions. Credit is received for participation in dance line. RESTRICTION: Must be a member of Dance Line.
PHED	1314	Rhythm II	1	PE/Health Course, Physical Education Requirement	The course is open to students that are selected by audition at the beginning of the year, or recruited. The course is a continuation of the previous course. Emphasis on fundamentals of precision dance and drill are basic to the course. The group will perform at basketball games, community and professional functions. Credit is received for participation in dance line.
PHED	1315	Rhythm III	1	PE/Health Course, Physical Education Requirement	The course is a continuation of the previous course. Credit is received for participation in dance line.
PHED	1316	Rhythm IV	1	PE/Health Course, Physical Education Requirement	The course is a continuation of the previous course. Credit is received for participation in dance line.
PHED	1319	YogaFit	1	PE/Health Course, Physical Education Requirement	YogaFit® is designed to improve the health, performance, and mental acuity of athletes or individuals interested in improving their level of fitness. Based on the ancient fitness science of hatha yoga, it blends balance, strength, flexibility and power in a fitness format. YogaFit® overcomes the mystery of yoga by delivering a practical, user-friendly style, which is accessible, understandable, and doable by individuals at any level of fitness. The YogaFit® style reduces the risk of injury and augments recovery for ailments including stress, lower back pain and tension.
PHED	1321	Physical Fitness I	1	PE/Health Course, Physical Education Requirement	In this course students will evaluate and develop their muscle tone, cardiovascular endurance, flexibility, and body composition through supervised circuit training and other exercise activities. Through this course, students will learn the value and benefits of a lifetime physical fitness program.

Substantive Change Application: New Programs

PHED	1322	Physical Fitness II	1	PE/Health Course, Physical Education Requirement	This course is a continuation of Physical Fitness I. In this course students will evaluate and further develop their muscle tone, cardiovascular endurance, flexibility, and body composition through supervised circuit training and other exercise activities. Through this course, students will learn additional values and benefits of a lifetime physical fitness program.
PHED	1326	Concepts of Personal Training	3	PE/Health Course, Physical Education Requirement	This course is designed to prepare and qualify students to work as personal trainers. This professional development course not only prepares students for successful attainment of the NCSF CPT credential, but also provides them with the skill set for capable job performance in the expanding personal training market.
PHED	1327	Zumba	1	PE/Health Course, Physical Education Requirement	Zumba Fitness is a Latin-inspired dance fitness class which incorporates Latin, International and popular music and dance movements to create a dynamic, effective fitness system. Traditional dances such as Salsa, Cumbia, Merengue and African are mixed with contemporary Hip-Hop, Jazz, Pop as well as fitness moves to achieve increased physical fitness.
PHED	1328	Abdominal Core Fitness	1	PE/Health Course, Physical Education Requirement	Core class is an athletic workout using the principles of sports, stretch, strength training, conditioning and dynamic movements combined with light hand weights. It includes modifications for the group exercise environment, yet offers exercise progressions to challenge all levels of participants. Core class will increase the participant's strength, flexibility, and balance and improve one's overall fitness level.
PHSC	1400	Physical Science	0 or 5	Laboratory Course, Natural Science Requirement	Physical Science is designed primarily for students other than those planning on mathematics or science majors. It is a lab course concerned with the concepts of matter and energy involved in the fields of physics, chemistry, astronomy, and earth science as well as introduction into the applied mathematics pertaining to each of these fields.
PHSC	1402	Introduction to Geology	3 or 5	Laboratory Course, Natural Science Requirement, Non-Laboratory Course	The class provides an introduction to the principles of earth science and will include a study of the information, occurrence and structures of minerals and rocks, the action of streams, oceans, glaciers, and other agents in the formation and modification of the landscape.

Substantive Change Application: New Programs

PHSC	1403	Intro to Geology Laboratory	2	Laboratory Course, Natural Science Requirement	This course is designed for students requiring a laboratory course in geology. It is concerned with the practical application of the principles of geology.
PHSC	1404	Physical Geography	3	Natural Science Requirement, Non-Laboratory Course	A study of the geographic factors of our physical environment including climate, terrain, soils, landforms, the seas, economic resources, cartographic elements and an introduction to regional studies.
PHSC	1408	Astronomy	3	Natural Science Requirement, Non-Laboratory Course	This is a general Astronomy course designed to acquaint the student with the heavenly bodies and the seasonal migration throughout the sky. Emphasis will be placed on the methods and tools used in exploring the solar system and the local galaxy. Theories about the rest of the universe will be included. An important part of the course will be time spent observing using both naked eye and telescopes, and time spent in the planetarium.
PHYS	1600	Physics I	0 or 5	Laboratory Course, Natural Science Requirement	The course will cover the basic principles of mechanics, heat and sound. Students enrolled in Physics are required to enroll in the accompanying lab. RESTRICTION: 1830 Trigonometry or high school trigonometry.
PHYS	1602	Physics II	0 or 5	Laboratory Course, Natural Science Requirement	The course will cover the basic principles of electricity, magnetism, light, and modern physics. Students enrolled in Physics II are required to enroll in the accompanying lab.
PHYS	1604	Engineering Physics I	0 or 5	Laboratory Course, Natural Science Requirement	This course is designed specifically for the student majoring in physics, chemistry, or engineering. It includes the study of mechanics, physical properties of matter, heat and thermodynamics and uses the application of calculus to the problem-solving techniques of physics. Students must also enroll in Engineering Physics I Lab.
PHYS	1606	Engineering Physics II	0 or 5	Laboratory Course, Natural Science Requirement	This course is a continuation of Engineering Physics I. It includes the study of electricity, magnetism, wave motion optics, and modern physics with calculus applications. Students must also enroll in Engineering Physics II Lab.

Substantive Change Application: New Programs

POLS	1800	Government of United States	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	A study of the constitution of the United States and the organizations, powers, and functions of the national government. In addition, current problems and policy and the role of the individual will be studied.
POLS	1801	Intro to Political Science	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	This course is designed to elevate the political awareness of the student, as well as teach the inner and outer workings of all political systems at all levels.
POLS	1804	International Relations	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	A study of the fundamentals of the nation-state system; sovereignty, nationalism, diplomacy, collective security, the balance of power, and international organizations.
POLS	1805	Dir Ind Study/Government	1 to 3	Depth course AA, AS, AGS, AAS, Social Science Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, non-vocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
POLS	1828	State & Local Government	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	A study of the principles of organization and practical operations of state, county, and city governments in the United States. Special emphasis will be given to current problems facing state and local governments.
PSYC	1000	General Psychology	3	Breadth course AA, AS, AGS,AAS, Social Science Requirement	This course provides a broad overview of the theories and research findings associated with the scientific study of behavior and mental processes. Topics covered may include research techniques, the biological influences on behavior, development, sensation and perception, motivation and emotion, intelligence, consciousness, learning, memory, the role of psychological factors in health, personality, mental disorders and their treatment, and social influences on behavior.

PSYC	1006	Abnormal Psychology	3	Depth course AA, AS, AGS, AAS, Social Science Requirement	This course will examine the criteria for normal and abnormal behavior by exploring the dynamics of their occurrence as well as their etiology, symptoms, diagnosis, and treatment. Topics covered include anxiety disorders, mood disorders, sexual dysfunctions and deviations, organic brain syndromes, and schizophrenia.
PSYC	1014	Developmental Psychology	1 to 3	Depth course AA, AS, AGS, AAS, Social Science Requirement	This course examines the theories, methodologies and data pertinent to the study of the individual across the life-span. Emphasis will focus on both the continuity and changes in behavior due to hereditary and environmental influences within infancy, early childhood, adolescence, adulthood, and late adulthood. Topics will include behavioral genetics, prenatal influences, physical maturation and aging, mental abilities, gender and sexuality, moral development, family and peer interactions, developmental disorders, as well as death and dying.
PSYC	1018	Group Dynamics I	3	Depth course AA, AS, AGS, AAS, Social Science Requirement	Theoretical interpretations of how and why groups and individuals interact. Instructional goals are to better acquaint the student with himself and others; to tune into his own feelings and attitudes and talk up so that optimal interpersonal communication and adequate ego-strength may be developed.
PSYC	1026	Psychology Grief & Separation	1	Depth course AA, AS, AGS, AAS, Social Science Requirement	An appropriate course for the student pursuing skills in any of the helping professions. It is also appropriate for the individual who is simply interested in learning more about the process of grief for his or her own benefit.
PSYC	1027	Coping with Stress	1 to 3	Depth course AA, AS, AGS, AAS, Social Science Requirement	Coping with Stress is designed to give the student a basic knowledge of different stress management techniques and to learn how to apply different stress management techniques to one's own life.
PSYC	1034	Theories of Personality	3	Depth course AA, AS, AGS, AAS, Social Science Requirement	This class has as its objective, understanding representative schools of personality theory. Topics included in this class are Freud's classical psychoanalytic theory, Jung's analytic theory, other psychodynamic theories, existential theory, behaviorism, and humanism.

PSYC	1045	Dir Ind Study/Psychology	1 to 3	Depth course AA, AS, AGS, AAS, Social Science Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, non-vocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
PSYC	1130	Death & Dying	1 to 3	Depth course AA, AS, AGS, AAS, Social Science Requirement	This course will provide a broad overview of the theories and data concerning death, grief, and bereavement throughout the life-span. Topics will include demographic trends in death rates, societal views of death and dying, cultural and religious influences on dying, age differences in death experiences and coping, health care practices, and legal issues concerning death.
RELI	1301	New Testament Lit:Gospels	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A course designed to introduce the student to the English translations of the four gospels of the New Testament text: Matthew, Mark, Luke, and John. The text of the gospels will be studied almost exclusively rather than emphasizing a textbook about them. Each student will complete an individual exegesis of specific, difficult passages found in the gospels. Several New Testament commentaries will be studied to complete this assignment.
RELI	1302	Dir Ind Study/Religion	1 to 3	Depth course AA, AS, AGS, AAS, Humanities Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, nonvocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.

RELI	1303	New Test Lit:Acts & Epistles	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A course designed to introduce the student to the English translations of the Acts of the Apostles and some of the epistles of the New Testament literature. The texts of these New Testament books will be studied almost exclusively rather than emphasizing a textbook about them. The early history of the New Testament church will be studied along with principles and procedures of ethical conduct taught therein.
RELI	1305	Old Testament Lit:Pentateuch	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A course designed to introduce the student to the English translations of the first five books of the Old Testament. These books will be studied almost exclusively rather than studying a textbook about them. The biblical account of the early history of man's origins will be studied along with principles of ethical conduct taught therein. Doctrinal and theological issues are purposely avoided in order that we might not be side-tracked from the literature of the Pentateuch.
RELI	1307	Old Test Lit:Wisdom Books	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A course designed to introduce the student to the English translations of the so-called wisdom books of the Old Testament Canon: Proverbs, Job, Ecclesiastes. Other books that may be studied in this course are Psalms, Esther, Lamentations and Song of Solomon, depending on the needs and interests of the instructor and students. The text of these books will be studied almost exclusively rather than emphasizing a textbook about them.
RELI	1309	Old Test Lit:Prophets	3	Depth course AA, AS, AGS, AAS, Humanities Requirement	A course designed to introduce the student to the English translations of the Old Testament major and minor prophets. These books will be studied almost exclusively rather than studying a textbook about them.
RELI	1311	World Religions	3	Breadth course AA, AS, AGS,AAS, Humanities Requirement	A survey of the major religious systems of the world, including Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam. Objectivity and impartiality are important characteristics of our study. We seek to understand the world's religions, not evaluate their comparative merits.

SOCI	1100	Introduction to Sociology	3	Breadth course AA, AS, AGS, AAS, Social Science Requirement	This course is the study of human social environments. Particular emphasis is given to the origin and nature of society and its institutions, general principles of sociology, and the influence of culture on the individual. Applications of these principles will be made to current social problems.
SOCI	1101	Dir Ind Study/Sociology	1 to 3	Depth course AA, AS, AGS, AAS, Social Science Requirement	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, nonvocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.
SOCI	1102	Marriage & Family	3	Depth course AA, AS, AGS, AAS, Social Science Requirement	A survey of sociological research methods and theories used in the study of marriages/families. The effects of social change, gender theory, and contemporary global problems facing marriages/families will be considered.
SOCI	1104	Contemporary Social Problems	1 to 3	Depth course AA, AS, AGS, AAS, Social Science Requirement	This course provides a framework for identifying, exploring, and evaluating social problems today. Students are encouraged to distinguish knowledge from values in their own attitudes about what constitutes a "social problem" and in their assessment of current programs aimed at alleviation of social problems.
SOCI	1110	Juvenile Delinquency/Justice	3	Depth course AA, AS, AGS, AAS, Social Science Requirement	Examines the historical precedents and philosophical reasons for treating juveniles differently from adults. Reviews empirical evidence about child development that can illuminate the reasons for their special status within the system. It will study the major theories that have been proposed as explanations of delinquent behavior. The course will also provide a detailed overview of the juvenile justice system, from its beginnings to the current state of the institution.

SOCI	1114	Human Sexuality	3	Depth course AA, AS, AGS, AAS, Social Science Requirement	This course is designed as a comprehensive overview of the entire field of sexuality and uses an interdisciplinary approach which deals with the biological, psychological, and sociological aspects of sexuality. There is emphasis placed on factual dimensions as well as religious, moral, and ethical values and the social mores of the various cultural groups.
SOCI	1129	Cross Cultural Awareness	3	Breadth course AA, AS, AGS, AAS, Social Science Requirement	The purpose of the class is to assist students in developing an awareness of cultural background, attitudes, and experiences. The class is also intended to create an awareness of one's own individual respect for human dignity and individual rights both for oneself and others in our increasingly pluralistic society.
SOCI	1145	Parenting	3	Depth course AA, AS, AGS, AAS, Social Science Requirement	An examination of parenting lifestyles and values and their relationship to available alternatives for guiding children's behavior. The course will provide purposeful training in preparation for the responsibilities of parenthood.
STAT	1829	Elements of Statistics	0 to 3	Foundation Course AA, AS, AGS, AAS, Mathematics Requirement, Natural Science Requirement, Non-Laboratory Course	This course will cover elementary descriptive statistics, probability, various distributions, confidence intervals, sampling methods, hypothesis testing, and correlation and regression.
THEA	1300	Introduction to the Theatre	3	Breadth course AA, AS, AGS, AAS, Humanities Requirement	This course is designed to create for the student an awareness of the skills, arts and sciences involved in the presentation of play. Special emphasis is given to the problems of the actor and the director.
THEA	1301	Dir Ind Study/Theatre	1 to 3	Humanities Requirement, Studio Course (AA up to 3 hrs)	Directed independent study is a structured learning experience offered as an extension of the regular curriculum. It is intended to allow students to broaden their comprehension of the principles of, and their grasp of competencies associated with academic, nonvocational disciplines. Its purpose is to supplement extant courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting but will be appropriately directed and supervised by regular instructional staff.

THEA	1302	Acting I	3	Performance Course, Physical Education Requirement	This course provides varied experiences for the student to apply the fundamental techniques to acting. This course is designed for the actor in the school or community who has begun to "act" in the sense that they have already been in several parts, but who has no real training and wish practical assistance in preparing a role of some proportions. This course is meant for the beginner before he has read widely in more advanced works or at least before he has developed from wide reading and experienced a workable system of his own.
THEA	1304	Acting II	3	Performance Course, Physical Education Requirement	This course provides a continuation of Acting I. The course provides varied experiences for the students to apply the fundamental techniques of acting, emphasizing the actor's responsibility in creating the character. Class work will involve advanced acting exercises focusing on more in-depth analysis and character development, scenes, research, and different styles of acting as demanded by dramatic literature.
THEA	1306	Play Production	3	Performance Course, Physical Education Requirement	This course provides the student with additional theatrical experiences. Students apply various techniques necessary to the total theatrical production. Included in the course work is experience in scene study, directing, make-up, and technical theater.
THEA	1308	Musical Theatre	1 to 3	Performance Course, Physical Education Requirement	This course is designed for students participating in the college musical. Emphasis is placed on the musical and dramatic growth of each student, acquiring an understanding of the many facets of musical theatre and an appreciation of the discipline and effort demanded in coordinating these facets for an artistic performance.
THEA	1310	Stagecraft	3	Humanities Requirement, Studio Course (AA up to 3 hrs)	This course will acquaint the student with the tools, material and proper techniques used in scene construction and theatrical stage lighting.
THEA	1327	Creative Dramatics: Children	3	Breadth course AA, AS, AGS, AAS, Humanities Requirement	Designed to provide an opportunity for students working with young children to participate in creating dramatics. Children's theater will discuss instructional and therapeutic purposes for the theater as well as interest and stimulate the imagination of the child.

THEA	1328	Make-Up for the Theatre	1 to 2	Humanities Requirement, Studio Course (AA up to 3 hrs)	This course is designed to introduce the student to the styles of make-up that are used on stage. The course consists of most areas of make-up technique, which complement the efforts of a particular theatrical style, resulting in a finished stage presentation. The course will concentrate on many styles and procedures for applying stage make-up.
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## Required Courses

SUBJ	CRSE	Title	Credits	Description
ACCT	1602	General Accounting	3	General Accounting includes the theory and practice associated with double-entry accounting. Special emphasis is placed on the use of special journals, subsidiary ledgers, accounting for the control of cash, the voucher system, and payroll accounting. Still further emphasis is given to the use of business papers as supporting vouchers for the accounting that follows. (General Accounting cannot be substituted for Accounting I.)
BSTC	1001	Introduction to Computers	1 to 3	This is a computer literacy course designed to introduce students to what a computer and how computers can be used. Topics covered include a brief historical survey of computers, components of computer hardware, applications and systems software, survey of programming languages, computer systems design and analysis, problem solving capabilities of a computer and the impact of computer technology on society. Students will also gain experience using microcomputers and packaged software such as word processing, spreadsheets, database management, graphics, and telecommunications.
BSTC	1023	Data Base Management Systems	1 to 3	Provides theory, information and training in the concepts of database management systems using microcomputer database software to apply and validate these concepts. Database design methodology is discussed. A microcomputer DBMS is used to create database and generate solutions to implement a business application. Students create tables; input forms, subforms, and switchboard forms; filters; select and action queries; reports and subreports; macros; and custom menu bars, toolbars, and tooltips. Text and spreadsheet data is imported into the database, and database objects are shared with and exported to other programs. Concepts on how to distribute data using a private internal internet or the public Internet are explored. Database security issues are examined.

BSTC	1036	Computer Concepts & Appl	3	This course is an introduction to basic computer concepts and includes hands-on use of microcomputers using common software applications. These software applications include typical features of office suites such as word processing, spreadsheets, database systems, presentation software, browsers, and other features found in current software packages. On course completion, students will understand common computer concepts and will be able to utilize common software applications.
BSTC	1685	Spreadsheet Applications	3	A course emphasizing the use of spreadsheet applications software to solve business problems such as budgeting, accounting, forecasting, and scheduling. Included will be applications using formulas, editing, copying, sorting, recalculating, designing and using templates, generating, graphs, and macros features. Planning techniques and potential uses of spreadsheets in business and industry will be discussed.
BSTC	1698	Info Processing Systems Mgmt	3	A course for those who are word processing supervisors or aspire to supervisory or management positions. The emphasis is on office technology, systems organization (including integration of WP/DP, electronic mail, communications, and records management), personnel management, controls and measurement of word processing operations and production controls.
BUSI	1600	Introduction to Business	3	This course includes a survey of the field of business organization and management and the scope, the nature, and the involvement of the problems of business.
BUSI	1751	Small Business Records I	1 to 3	This course stresses the importance of maintaining complete and accurate records in a small business as well as the importance of the ability to anticipate and adequately respond to short and long term financial needs. It is also designed to facilitate understanding of issues related to the money management needs of a small business, particularly in regards to banking and the use of a business plan to secure financing. Basic accounting procedures and financial statement preparation are also covered.
BUSI	1780	Total Quality Management	1 to 3	This course introduces the student to the management principles of the quality movement. It examines the cultural and global influences. Process management, systems thinking, variation and statistical thinking, customer-supplier relationships, continuous improvement, and customer satisfaction will be introduced in a service and manufacturing organization.
BUSI	1804	Human Relations in Business	3	Human Relations in Business is a course that emphasizes the importance of human relations as it applies to work within an organization as well as to everyday life. This course will prepare the student to function within diverse groups of people. It focuses on problem solving, group dynamics, teamwork, communication, leadership styles, and business etiquette. The impact of technology on human relations will also be discussed.
BUSI	1807	Customer Service	1 to 3	This course will focus on the needs and requirements of internal and external customers, the enhancement of customer relationships, the significance of market research with respect to customers, the design and redesign of customer service strategies, and differentiate between internal and external customers in a service and manufacturing organization.

Substantive Change Application: New Programs

COMM	1230	Public Speaking	3	This course includes a study of the theoretical principles underlying effective communicative behavior, and the practical application of those principles in various communicative exercises and assignments. The course is designed to increase the awareness of the importance of speech communication in today's society and develop competency of speakers.
EMHS	1952	Basic Incident Command System	1 to 3	This course is designed to train students in the basic levels of the Federal Emergency Management Agency (FEMA) Incident Command System (ICS) and the National Incident Management System (NIMS). Students will manage resources and personnel for incidents ranging from ceremonies to natural disasters. The course instruction will follow and meet the guidelines established by the (FEMA) courses IS100, IS200, and IS700.
EMHS	1962	Disaster Site Worker	3	This course will train students in accordance with OSHA regulations pertaining to construction standards and Safety for Disaster Site Workers that are set forth in the Code of Federal Regulations (CFR) 29, part 1926. This course will also introduce students to the operational skills and procedures required to provide support services (e.g. utility, demolition, debris removal, or heavy equipment operation) or site clean-up services in response to natural and man-made disasters. All workers at disaster sites need to be aware of the differences between disaster sites and regular construction or demolition worksites and to be able to determine appropriate protective measures for ensuring disaster site worker safety.
HLTH	1248	Personal & Community Health	3	The purpose of this course is to provide a personal appreciation, understanding, and awareness for good health and well being by analyzing the causes and effects of major health problems in our society today.
HZMT	1905	Environmental Sampling & Monit	3	This course introduces students to the basic concepts and technologies employed to properly sample and monitor various environmental media in a variety of settings. Course emphasis is given to both regulatory compliance and response operations. Topics include air, water, and soil sampling plans, equipment selection, sampling techniques, sample integrity, monitoring techniques, chain of custody, quality, and data interpretation.
HZMT	1914	OSHA General Industry Regs	1 to 3	The purpose of this course is to provide instruction concerning the development and implementation of a hazard communication program for employees, the community and emergency response personnel. Topics covered include hazard determination, the written program, labeling and placarding, material safety data sheets (MSDS), and the employee training program.
HZMT	1917	Dept. of Transportation Regs	1 to 3	This course provides a detailed study of the U.S. Department of Transportation (DOT) regulations. Topics include identifying regulated materials; prepare shipping papers, inspection of packaging and label determination. Emphasis will be placed on interpretation of regulations used in the transportation and storage of hazardous materials.

HZMT	1919	Haz Waste Oper & Emer Response	1 to 3	This course provides students with an overview of the requirements of 29 CRF 1910.11 for occupational health and safety workers who respond to hazardous waste and chemical spills. Topics include toxicology, chemical awareness, monitoring, personal protective equipment, safety, confined space entry, incident command, site control, medical surveillance, decontamination, safe work practices and emergency procedure
HZMT	1950	Characteristics of Haz Mat	3	This course focuses on the basic concepts needed by first responders, emergency operations personnel, industry, and law enforcement to evaluate the potential hazard and behaviors of materials considered hazardous. It examines the reasons for the chemical behavior of hazardous materials and is designed to improve decision-making in safety operations, handling, entrance protection, mitigation, and decontamination procedures. Units of the course include the Periodic Table, chemical and physical aspects of chemical compounds and how these properties affect emergency incidents, salts, non-salts, the hydrocarbon family, hydrocarbon derivatives, and physical processes of combustion.
HZMT	1975	Recertification for HAZWOPER	0.5 to 1	This course provides students with eight hours of refresher training requirements of 29 CFR 1910.120(e)(8) for occupational health and safety workers who respond to hazardous waste and chemical spills. Topics include toxicology, chemical awareness, monitoring, personal protective equipment, safety, confined space entry, incident command, site control, medical surveillance, decontamination, safe work practices and emergency procedures. Training also may include any critique of incidents that have occurred in the past year that can serve as training examples of related work, and other relevant topics.
HZMT	1977	IATA Dangerous Goods Regs	3	This course provides a detailed review and familiarization of how to prepare dangerous goods for commercial airlift in accordance with the IATA Dangerous Goods Regulations. Topics include identifying the dangerous goods that can be transported on a commercial aircraft, identify the different restrictions and variations for air carriers and host nations, preparing shipping documents, selecting appropriate containment devices and recognizing their immediate limitations, and selecting the correct markings and labels that are used to communicate the hazard(s) of the items.
LEAD	100	Introduction to Leadership	3	This course studies leadership styles, skills, roles, and functions of leaders of organizations. Students will gain a broad understanding of the history and origins of leadership, theoretical approaches to leadership, and ethical issues facing contemporary leaders. Students will also develop a personal philosophy of leadership and an awareness of one's own style of leadership. This program integrates readings from the humanities, classic works of literature, contemporary multicultural writings, and experiential learning exercises with readings and discussions of traditional leadership theories. This course will utilize the acclaimed Phi Theta Kappa Leadership Development program curriculum.

MLTR	1020	Maintenance Manager	3 to 5	This course provides the basic knowledge and skills for Motor Pool Operations and management. The course includes training in duties, responsibilities and procedures to conduct and manage a unit maintenance program, use of the automated Standard Army Maintenance System-Enhanced (SAMS1-E) program, shop operations, tool room procedures, supply and safety procedures and exchange pricing.
MLTR	1022	Physical Security	1	This course provides the prescribed standards and criteria for the physical security of sensitive conventional arms, ammunition, and explosives (AA&E), within the custody of the Department of the Army (DA) facilities. This course will also ensure that prescribed policies, procedures and standards are followed in accordance with Army regulations. It will also assign responsibilities for the effective implementation and application of physical security of AA&E consistent with operational and safety requirements.
MLTR	1025	SADBA	3	This course provides personnel with the knowledge and skills to perform the procedures and functionalities necessary to operate the TC-AIMS II software and hardware. After an introductory section giving an overview of the Army deployment process, training is designed to instruct the Unit Move Officer (UMO) in those particular procedures and functionalities assigned to the UMO profile in TC-AIMS II. Instructional use on system processes associated with system administration procedures which will include. Advance database installation and configuration. System administrator tools, job profiles, administrative reports and user profiles. Instruction is mainly hands-on training utilizing instructor-led and independent student practical exercises, demonstration and conference (lecture) type training.
MLTR	1026	Unit Movement I	3	This course provides personnel with the knowledge and skills to perform the procedures and functionalities necessary to operate the TC-AIMS II software and hardware. After an introductory section giving an overview of the Army deployment process, training is designed to instruct the Unit Move Officer (UMO) in those particular procedures and functionalities assigned to the UMO profile in TC-AIMS II with stress on data completion, maintaining and updating the Organizational Equipment List (OEL) and creating the Unit Deployment List (UDL). This course also offers a thorough practical understanding of Automatic Identification Technology. Instruction is mainly hands-on training utilizing instructor-led and independent student practical exercises, demonstration and conference (lecture) type training.
MLTR	1027	Unit Movement II	3	This course provides personnel with the knowledge and skills to perform the procedures and functionalities necessary to operate the TC-AIMS II software and hardware. After an introductory section giving an overview of the Army deployment process, training is designed to instruct the Unit Move Officer (UMO) in those particular procedures and functionalities assigned to the UMO profile in TC-AIMS II with stress on data completion, maintaining and updating the Organizational Equipment List (OEL) and creating the Unit Deployment List (UDL). This course also offers a thorough practical understanding of Automatic Identification Technology. Instruction is mainly hands-on training utilizing instructor-led and independent student practical exercises, demonstration and conference (lecture) type training. Students will complete an end-of-course exam.

MLTR	1028	Theater Operations	3	This course provides personnel with the knowledge and skills to perform the procedures and functionalities necessary to operate the Transportation Coordinators' Automated Information for Movement System TC-AIMS II software and hardware. After an introductory section giving overview of the Army deployment process, training is designed to instruct the Unit Move Officer (UMO) in those particular procedures and functionalities assigned to the UMO profile in TC-AIMS II. Specifically, the course covers instructions on the system's capabilities in managing Movement Control procedures, Mode Management procedures, and Highway Regulations and Convoy Planning procedures. This course also offers a thorough practical understanding of Automatic Identification Technology. Instruction is mainly hands-on training utilizing instructor-led and independent student practical exercises, demonstration and conference (lecture) type training.
MLTR	1039	Building Maintenance Milit Fac	1 to 3	This course will provide instruction to military service members and Department of Defense employees in the proper procedures and techniques necessary to perform facility maintenance and upkeep. Course includes administrative requirements and procedures on use of military forms and records, basic tools, masonry repair, painting, minor sheet rock repair, tile replacement, proper use of building materials, carpentry, minor plumbing and electrical maintenance.
MLTR	1040	Military Passeng-Carry Vehicle	1 to 3	This course is designed to train an individual to operate a passenger vehicle including inspection, maintenance, observing safety procedures and adhering to appropriate traffic rules and regulations.
MLTR	1042	Military Petroleum Operations	1 to 3	This course serves as an introduction to the United States Army's basic petroleum refueling operations. An emphasis will be on the use, operation, and maintenance of fueling vehicles and pumping equipment. The course will include the principles of record keeping, accountability, performing physical chemical tests, and observing for various forms of contaminants.
MLTR	1046	Field Sanitation Military Unit	1 to 2	This course will give soldiers knowledge and hands on training in testing and purifying water in a field environment along with preventive medicine measures (PMM) against disease's associated with arthropods, rodents and personnel hygiene. Preventive measures will be instructed and demonstrated in the prevention of heat and cold injuries, and the proper construction of waste facilities in a field environment.
MLTR	1050	Battle Staff Non-Comm Officer	9	This is a performance-oriented course of instruction designed to prepare Sergeants through Sergeant Majors for positions of responsibility as Staff Non-Commissioned Officers. Major subject areas include risk management; small group process; supply operations; transportation/ tactical movement planning; reconstitution; graphics and overlays; combat support; military decision making process (MDMP); plans, orders, and annexes; combat records and reports; intelligence preparation of the battlefield (IPB); military briefings; introduction to army battle command system (ABCS); information operations; urban operations; rehearsals; maneuver control system (MCS); and staff functions.

MLTR	1060	Standard Army Maint Sys Oper	3 to 5	This course combines all aspects of a Maintenance Management System, and a repair part re-supply system through the use of the Standard Army Maintenance System - (SAMS) Software. Theory and application of both manual and automated tasks are presented through the use of Seminar and practical exercises. Repair part system areas of major emphasis include parts ordering procedures, Document Register management and parts stockage and management. Maintenance Management areas of emphasis will include preparation and use of the Army Maintenance and Inspection Worksheet, deferred maintenance, licensing, equipment dispatch, Army Oil Analysis Program, scheduling equipment services, and historical records. Related subject areas include accident reporting, physical security, material condition status reporting, publications, and query by example.
MLTR	1061	Standard Army Maint Sys Super	1	This course provides students with an overview of the Electronic Standard Army Maintenance System (SAMS-E). This course provides the student with the ability to manage a vehicle fleet of various sizes while establishing and creating numerous templates for various reports. The student will become familiarized with SAMS-E User Interfaces and SAMS-E common processes. The student will get a clear understanding of the various processes and procedures used to navigate the SAMS-E application.
MLTR	1535	Combat Lifesaver Course	2 to 3	This course is designed to address the significant challenges faced in providing emergency care in battlefield environment when medically trained personnel are unavailable. Instruction consists of a broad mix of basic and advanced life support techniques and strategies. Major areas of emphasis include care under fire, tactical field care, and casualty evacuation specifically focusing on immediately life-threatening and potentially correctable medical problems. Students with or without prior medical knowledge will gain valuable emergency medical skills used in military operations.
MLTR	1536	CombatLifesaverR ecertification	1	This course emphasizes the integration of the Basic and the Advanced emergency medical skills and proper procedures of emergency care in the pre-hospital setting. Each task allows for individual and collective practice of specific skills. Appropriate tests and evaluation sessions are designed to assure proficiency of critical medical skills at all levels. The course covers all the fundamental skills necessary to meet the Department of the Army and Department of Transportation's requirement for Semi-annual sustainment and skills validation.
MLTR	1626	Weapons Storage Facility Oper	1 to 3	This course is designed to train an individual to do various levels of arms storage facility operations, including inspection and maintenance of small arms, maintenance record keeping, and the appropriate physical security measures.
MLTR	1627	Mgmt of Weapon Stor Facilities	2	This course is designed to train an individual to do various levels of arms storage facility operations, including inspection and maintenance of small arms, maintenance record keeping, and the appropriate physical security measures.
MLTR	1763	Instructor Training Course	1 to 5	This course is for students preparing to facilitate or conduct training in a formal setting. The course provides students with the skills necessary to evaluate training, preparation of lesson plans, multimedia presentations, hands-on and lecture techniques, as well as written assessments of learning objectives.

MLTR	1765	Physical Readiness TL Course	3	This course is designed to provide the student with information on the basic physiological functions specific to exercise science and the effects of physical exercise on the human body. The following components of effective physical fitness will be covered: Cardio respiratory (CR) endurance, muscular strength, muscular endurance, and body composition.
MLTR	1795	PBUSE for Operators	3	This course provides an overview of the procedures used by organizations to control and account for facilities, supplies and equipment through the use of the Property Book Unit Supply Enhanced - (PBUSE) Software. Theory and application of both manual and automated tasks are presented through the use of Seminar and practical exercises. Procedures used that enable an organization to account for resources and provide managers with logistical data needed to ascertain spending trends and to account for property will be covered. Major areas of emphasis will include Property Accountability, Property Functionality, Equipment Inventories, Supply Functionality and Telecommunications Capabilities.
MLTR	1796	PBUSE for Managers & Leaders	1 to 4	This course serves as an introduction to procedures used by Commanders, Staff Officers, Property Book Officers, and government agencies for maintenance and accounting for facilities, supplies and equipment through the use of the Property Book Unit Supply Enhanced - (PBUSE) Software. Students will be introduced to the functional area and system operations of both manual and an automated logistic System that enables the organization to account for resources and property. Student will learn how to use the different functions of the system through lectures and practical exercises and cover the functions such as: Property Accountability, Property Functionality, Equipment Inventories, Budget and Supply Functionality, Logistical Planning and Telecommunication Capabilities.
MLTR	1800	Laser Sighting & Engage System	0.5 to 1	This course is designed to instruct students on local military procedures for issue, operation, troubleshooting, and turn-in of tactical simulator equipment.
MLTR	1815	Military Digital Train Mgmt Sy	1 to 2	This course is designed to enable Department of Defense personnel and other interested parties to acquire the skills needed to prepare training plans, coordinate training, resource training events, evaluate and assess training and produce applicable training reports.
MLTR	1921	Nuclear Bio & Chem Resp Operat	1 to 5	This course is designed to teach students the primary techniques and skills necessary for analysis, investigation, and defensive operations in areas suspected of Nuclear, Biological, or Chemical contamination. Though extensive study of each critical area, students will gain the skills necessary to predict and determine the extent of possible damages, losses, and personnel injury in a defined population. Students will learn the fundamental techniques of defensive planning, reporting criteria, and the role of advising senior managers of potential threats and possible courses of action. In addition to extensive lectures, hands on training will consist of the proper use, maintenance and deployment of monitoring equipment, including decontamination procedures, and personal/organizational protective measures.

MLTR	1922	Transport Hand&Stor-Explos Mat	1 to 3	The purpose of this course is to provide the student with the information pertaining to the responsibilities of management of munitions and explosive materials in the workplace. It includes an overview of a munitions operation and maintenance program and provides information for establishing work priorities and procedures for usage and protection. Information will be provided for developing plans and adequate record systems. Other areas to be stressed are the needs for organizational leadership and compliance to governmental regulations and the effective communication of the area.
MLTR	1924	Master Driver Course	3	The Master Drivers Course provides an overview of the procedures used by Military Commanders to control and account for training, testing, evaluating, and licensing vehicle and equipment operators. Theory and application of both manual and automated tasks are presented through the use of seminar and practical exercises. Safety requirements for motor vehicles and accountability for training, testing, recording, evaluating, and licensing for all vehicle and equipment operators who utilize military equipment will be included. Department of Defense, Army State and Local Laws, regulations and policies will be reviewed.
MLTR	1925	Tactical Radio Communication	3	This course provides students with the fundamental skills and abilities to successfully operate, maintain, and troubleshoot Military radio systems in a tactical environment. Skills will be reinforced through extensive practical exercises using a wide variety of radio systems currently used in tactical Military units.
TRAD	1764	Leadership Train Techniques I	1 to 3	This course is designed to help the supervisor develop effective management techniques. Class work and projects cover areas of management leadership dealing with the leadership formula, management skills, improving communication, the mutual reward theory, handling power with care and the decision making process.

Document 2

**PROGRAM FACULTY  
Full-Time & Part-Time**

**Name: Walter Brown**

Status: Full-time Faculty

Academic Qualifications & Related Teaching Area Certifications: Associate Applied Science, Certified College Consortium Health and Safety Trainer

Experience: 15 years Military Service in teaching area

Course Load: 54 Credit Hours (12 Month faculty)

Coursework in Other Programs: Hazardous Materials Management Program Courses- Department Of Transportation Regulations, IATA Regulations)

**Name: Eric Bundy**

Status: Full-time Faculty

Academic Qualifications & Related Teaching Area Certifications: BS, MBA, Certified Military Instructor

Experience: 20 years Military Service in teaching area

Course Load: 54 Credit Hours (12 Month faculty)  
Coursework in Other Programs: N/A

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**Name: Eugene Compton**

Status: Full-time Faculty

Academic Qualifications & Related Teaching Area Certifications: BS, MBA, Certified Military Instructor,  
National Registry Emergency Medical Technician

Experience: 20 years Military Service in teaching area

Course Load: 54 Credit Hours (12 Month faculty)

Coursework in Other Programs: N/A

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**Name: Dennis King**

Status: Full-time Faculty

Academic Qualifications & Related Teaching Area Certifications: BS, Graduate Certificate, Certified  
College Consortium Health and Safety Trainer, OSHA Instructor

Experience: 20 years Military Service in teaching area

Course Load: 54 Credit Hours (12 Month faculty)

Coursework in Other Programs: Hazardous Materials Management Program Courses- Contingency  
Planning, OSHA Courses

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**Name: Locadio Perez**

Status: Full-time Faculty

Academic Qualifications & Related Teaching Area Certifications: AGS, BS, Certified Military Instructor,  
National Registry Emergency Medical Technician

Experience: 20 years Military Service in teaching area

Course Load: 54 Credit Hours (12 Month faculty)

Coursework in Other Programs: N/A

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**Name: Christian Smith**

Status: Full-time Faculty

Academic Qualifications & Related Teaching Area Certifications: AAS, Certified Military Instructor,  
Certified College Consortium Health and Safety Trainer

Experience: 20 years Military Service in teaching area

Course Load: 54 Credit Hours (12 Month faculty)

Coursework in Other Programs: Hazardous Materials Management Program Courses- ISO 14000,  
Sampling & Monitoring

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**Name: Roger Vanderlinde**

Status: Full-time Faculty

Academic Qualifications & Related Teaching Area Certifications: BS, MLS

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Experience: 20 years Military Service in teaching area  
Course Load: 54 Credit Hours (12 Month faculty)  
Coursework in Other Programs: General Studies & Emergency Management Programs – Intro to  
Terrorism, History

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**Name: Shawn Wood**

Status: Full-time Faculty  
Academic Qualifications & Related Teaching Area Certifications: AAS, Certified Military Instructor  
Experience: 20 years Military Service in teaching area  
Course Load: 54 Credit Hours (12 Month faculty)  
Coursework in Other Programs: NA

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**Name: Christopher Vanderlinde**

Status: Part-time Faculty (3/4)  
Academic Qualifications & Related Teaching Area Certifications: Certified Military Bus Instructor  
Experience: 4 years Military Service in teaching area  
Course Load: 40 Credit Hours -12 Month (3/4 time) faculty  
Coursework in Other Programs: NA

**Adjunct/ Associate Faculty**

**Name: George Bowman**

Status: Adjunct/Associate Faculty  
Academic Qualifications & Related Teaching Area Certifications: BA, MS (27 hrs.), Certified Military  
Instructor, Armament Technician  
Experience: 25 years Military Service in teaching area  
Course Load: Temp- as needed  
Coursework in Other Programs: NA

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**Name: Brandon Green**

Status: Adjunct/Associate Faculty  
Academic Qualifications & Related Teaching Area Certifications: BS, Certified Military Instructor,  
National Registry Emergency Medical Technician  
Experience: 16 years Military Service in teaching area  
Course Load: Temp -as needed  
Coursework in Other Programs: N/A

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**Name: Clarence James**

Status: Adjunct/Associate Faculty

Academic Qualifications & Related Teaching Area Certifications: BS, MA, MS, Certified IT Networking

Experience: 20 years Military Service in teaching area

Course Load: Temp - as needed

Coursework in Other Programs: N/A

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**Name: Richard Jones**

Status: Adjunct/Associate Faculty

Academic Qualifications & Related Teaching Area Certifications: AGS, Master Fitness Instructor, Certified Personal Trainer

Experience: 20 years Military Service in teaching area

Course Load: Temp - as needed

Coursework in Other Programs: N/A

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**Name: Richard Nichols**

Status: Adjunct/Associate Faculty

Academic Qualifications & Related Teaching Area Certifications: AAS, BS, Certified Military Instructor, Armament Technician

Experience: 20 years Military Service in teaching area

Course Load: Temp - as needed

Coursework in Other Programs: N/A

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**Name: Salvatore Portelli**

Status: Adjunct/Associate Faculty

Academic Qualifications & Related Teaching Area Certifications: Certified Military Instructor, National Registry Emergency Medical Technician, Pararescue Technician

Experience: 6 years Military Service in teaching area

Course Load: Temp -as needed

Coursework in Other Programs: N/A

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**Name: Courtenay Self**

Status: Adjunct/Associate Faculty

Academic Qualifications & Related Teaching Area Certifications: National Registry Emergency Medical Technician, CAN, Certified College Consortium Health and Safety Trainer

Experience: 6 years Military Service in teaching area

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Course Load: Temp -as needed  
Coursework in Other Programs: N/A

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**Name: Daniel Taylor**

Status: Adjunct/Associate Faculty

Academic Qualifications & Related Teaching Area Certifications: BS, Certified Military Bus Instructor

Experience: 20 years Government Service in teaching area

Course Load: Temp -as needed

Coursework in Other Programs: N/A

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**Name: Roderick Wilkins**

Status: Adjunct/Associate Faculty

Academic Qualifications & Related Teaching Area Certifications: BS, MS, Certified Military Instructor,  
Certified Military Bus Instructor

Experience: 30 years Military Service in teaching area

Course Load: Temp- as needed

Coursework in Other Programs: NA

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Substantive Change Application: New Programs

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NAME	STATUS	EDUCATION	EXPERIENCE	COURSE LOAD	COURSEWORK IN OTHER PROGRAMS
Walter Brown	Full-time faculty	AAS	12 Years Military Service		