Innovative Course Approval
January 9, 2007

SUMMARY:
> *Each year T.E.A. requires that any innovative courses be approved yearly by the board. Our three year CTE improvement plan approved for 2005-2009 had several innovative courses listed to be phased in over a three year period. This year, four will be added as innovative for 2007-2008.*

PREVIOUS BOARD ACTION:
Year two of a three year implement plan approval by board in 2005-2006 for Career & Technical Education.

BACKGROUND INFORMATION:
- Innovative Courses must reflect board approval for the upcoming school year before submittal to TEA

SIGNIFICANT ISSUES:
None

FISCAL IMPLICATIONS:
- No new local funds
- Federal "Carl Perkins" for books, etc.

BENEFIT OF ACTION:
Passage will allow students advanced level courses to compliment prior instruction

PROCEDURAL AND REPORTING IMPLICATIONS:
- None
- District will provide TEA with copy of Innovative Applications prior to Feb. 2007

PUBLIC COMMENT RECEIVED:
- None
-Supported and reviewed by Denton Seamless Education Leadership Team prior to board submittal in 2005

ALTERNATIVES:
-None approval

OTHER COMMENTS:

SUPERINTENDENT'S RECOMMENDATION: The following four innovative courses to be approved by the board for TEA consideration for the 2007-2008 school year: Denton Senior Leadership Academy, Aerospace Manufacturing Process, Spatial Technology and Remote Sensing and Understanding & Combating Terrorism

STAFF PERSONS RESPONSIBLE:
- Marty Thompson, Career & Technical Education Director and Dean, Advanced Technology Complex

ATTACHMENT:
- Course description for four innovative CTE courses.

APPROVAL:
Signature of Staff Member Proposing Recommendation: _____*Marty Thompson*_____

Signature of Divisional Assistant Superintendent: _____

Signature of Superintendent: _____

UNDERSTANDING AND COMBATING TERRORISM
GRADE: 12 CREDIT: 1 (ACCELERATED: DOUBLE BLOCKED FOR SPRING SEMESTER)
(COMMITTEE APPROVAL REQUIRED)
PREREQUISITE: NONE
LOCATION: ADVANCED TECHNOLOGY COMPLEX

This is a course designed to provide a study of terrorism, the reasons America is a target of terrorism and vulnerabilities, threat and risk assessment. The course will cover the domestic and international aspects of terrorism, narcoterrorism, environmental, weapons of mass destruction, and cyberterrorism It will cover the political and diplomatic methods of combating terrorism as well as the nature of the threat.

AEROSPACE MANUFACTURING PROCESS
GRADE: 11-12 CREDIT: 1
PREREQUISITE: RECOMMENDED: AGRICULTURE METAL FABRICATION
(APPLICATION)
LOCATION: ADVANCED TECHNOLOGY COMPLEX

This course introduces students to the principles and practices of modern aerospace manufacturing. It addresses specific manufacturing processes as they relate to the production of major aircraft components and systems. It identifies techniques that are applied within this manufacturing environment. Emphasis is given to process capabilities and limits, tooling considerations, materials requirements and constraints, economics of production, and design producibility. The course concludes with concepts in producibility / design for manufacturability and assembly.

DENTON SENIORS LEADERSHIP INTERNSHIP AT ATC
GRADE: 12   CREDIT: 1 (ACCELERATED: DOUBLE BLOCKED FOR SPRING SEMESTER)
PREREQUISITE: NONE

This is an innovative course designed for seniors only. Seniors will develop a personal portfolio, skill competencies, resumes, and have activities concerning business ethics and etiquette, time and money management, community service, and business internships. Guest speakers from the universities, business and Denton Chamber of Commerce will provide a framework for student success

SPATIAL TECHNOLOGY AND REMOTE SENSING
GRADE: 12   CREDIT: 1
PREREQUISITE: RECOMMEND: GEOGRAPHIC INFORMATION SYSTEM
LOCATION: ADVANCED TECHNOLOGY COMPLEX

This is a project based class used in preparation class used for the GIS SPACESTARS Certification Exam. Each student will need to complete one project and achieve 70% or higher on the written STARS exam to become STARS certified. Each project integrates project planning, geographic problem solving, geographic tools, GIS software applications, data creation, data manipulation, and project management.