GAVILAN BOARD OF TRUSTEES
CURRICULUM SUMMARY
DECEMBER 13, 2011

CONSENT AGENDA

HIST 2 **United States History: Reconstruction to the Present** **3 Units, 3 Lec**
C-ID update: update content.

WTRM 190 **Occupational Work Experience/Water**
Correction: The title of WTRM 190 was incorrectly listed on the 10/10/2011 Curriculum Summary as "Cooperative Work Experience". It should have been listed as "Occupational Work Experience".

NEW COURSE PROPOSAL – SECOND READING

AH 743 **Healthier Living Through Tobacco Cessation** **2 Lec**
This course is designed to provide the opportunity to obtain valuable education, support, and build the skills necessary to quit tobacco and live a healthier lifestyle. This course will also serve as a preventative measure for those who are considering smoking or using other tobacco related products. Discussion will focus on developing healthy coping skills, learning healthy lifestyle alternatives to smoking, and learning strategies such as Behavioral Modification Techniques and the use of Nicotine Replacement Therapy to help stop smoking. The physiological effects of tobacco on the human body will also be discussed. The course will be offered both in English and Spanish.

KIN 83 **Karate** **.5-1 Units, 0 Lec, 1.5–3 Lab**
An introduction to the basic skills and techniques of Japanese Karate. Emphasis will be on the fundamentals of martial arts, including safety skills and etiquette, kicking, punching, striking, blocking, and Kata forms. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit.

KIN 85 **Concepts/Program Design of Strength /Cardiovascular Fitness**
3 Units, 3 Lec, 0Lab
This course is designed for the fitness specialist who wants knowledge of all aspects of resistance training and cardiovascular fitness. Emphasis will be on developing a physiologically sound and client-centered exercise prescription program. Students will learn program design, periodization training, effective exercises and stretches to improve client goals.

WTRM 106 **Beginning Water Treatment Plant Operation** **3 Units, 3 Lec, 0 Lab**
This is a comprehensive course that teaches basic principles of operation and maintenance of a water treatment plant. The course covers sources of water; public health aspects of water supply; physical and bacteriological standards of water quality; types of water treatment plants, water treatment procedures, operation, storage and distribution. This course is designed to prepare the student to take the State of California Water Treatment Operator exam. (T1, T2)

WTRM 107 Beginning Wastewater Treatment Operations 3 Units, 3 Lec, 0 Lab
This course covers an introduction to the operations and maintenance of a wastewater treatment facility. Topics include industry careers, certifications, advanced wastewater treatment methods, valves and equipment, as well as industry standard math formulas and conversion factors.

WTRM 108 Water Distribution 2 3 Units, 3 Lec, 0 Lab
Designed as the second part of an integrated sequence of two courses covering water distribution systems. Enables students to gain a more comprehensive understanding of the operation and maintenance of a waterworks distribution system, including advanced calculations, management, safety and emergency response issues. Contemporary issues facing the water and wastewater industry are also be explored in depth. This course is part of a series required for eligibility to take State certification examinations; supports certification examinations for CDPH grade levels D3, D4 and D5.

WTRM 109 Advanced Water Treatment Plant Operation 3 Units, 3 Lec, 0 Lab
This course focuses on advanced water quality control and treatment with emphasis on state regulations, EPA regulations, advanced mathematics and water chemistry. The course will include an in-depth study of treatment plant processes and their relation to current water quality regulations. This course will be helpful to those preparing for the CDPH Grade T3 and T4 examinations.

WTRM 111 Advanced Wastewater Treatment Plant Operation 3 Units, 3 Lec, 0 Lab
This course is designed to familiarize students with advanced wastewater treatment systems, including secondary and tertiary treatment, solids handling, disinfection, reclamation of wastewater, as well as laboratory study. The course prepares students for the CSWRB Wastewater Treatment Plant Operator examinations.

WTRM 112 Applied Hydraulics 3 Units, 3 Lec, 0 Lab
Study of the hydraulics necessary in the operation of water and maintenance plants and systems. Consideration of the types of pumps used in water/wastewater service, their operational characteristics, required maintenance and the problems common to their use.

WTRM 113 Beginning Wastewater Collection 3 Units, 3 Lec, 0 Lab
This course covers the proper installation, inspection, operation, maintenance and repair of wastewater collection systems. It provides the knowledge and skills required to effectively operate and maintain collection systems. This course also provides knowledge as to why collection systems affect treatment facilities and how they have a significant impact on the operation and maintenance costs and effectiveness of these systems.

WTRM 114 Laboratory Analysis for Water/Wastewater 3 Units, 3 Lec, 0 Lab
This course is designed to support an understanding and application of water quality laboratory basics in a practical setting. It prepares students to perform chemical, physical and bacteriological examination of water and wastewater.

WTRM 115 Supervision 3 Units, 3 Lec, 0 Lab
Supervisory aspects of public agencies and investor-owned utilities, including organization, decision-making, coordination, communication and public relations. Personnel supervision, including coaching, training, evaluation, discipline, team building, morale and grievances. Safety programs, as well as encouragement of safe conditions, actions and attitudes is also covered.

MODIFICATIONS TO EXISTING COURSES – FORM C

MATH 2C **Differential Equations** **3 Units, 3 Lec, 0 Lab**

Change Description:

An introductory course in differential equations that covers: first, second, and higher order equations involving linear, separable, exact, homogeneous, linear systems, Euler's numerical, method of undetermined coefficients, variation of parameters, reduction of order, Laplace Transforms, series solutions, and Fourier Analysis; and applications thereof.

Update textbook, student learning outcomes and content.

MATH 414 **MATH BOOT CAMP 1** **1-3 Units, 1-3 Lec, 0 Lab**

Change title, units and hours:

FROM:	Basic Math Skills	.5-1 Units, 0, 1.5-3 Lab
TO:	Math Boot Camp 1	1-3 Units, 1-3 Lec, 0 Lab

Justification: After teaching this class for the past two years, we've come to realize that we could increase the rate of student success by increasing the rigor of the course. Adding a lecture component to the course will achieve this. This will also enable us to increase the level of rigor in the topics and assign more homework so students can practice and reinforce the concepts that they learned during the day.

Change Description:

A remedial mathematics course designed for those students who need to learn, re-learn or re-fresh the fundamental concepts of math. The primary emphasis is on whole numbers, fractions, decimals, signed numbers, linear equations, and algebraic structures. This is pass/no pass course. Units earned in this course do not count toward the associate degree and/or certain certificate requirements.

Update content, textbook, student learning outcomes and methods of evaluation.

DISTANCE EDUCATION – FORM D

BIO 10 **Principles of Biology**

Justification: It will be available to a wider range of students, for example those living outside the Gilroy area, or those with jobs, spouses, or children.

(Course outline was updated 3/8/2010. BIO 10 outline)