

**GAVILAN BOARD OF TRUSTEES
CURRICULUM SUMMARY
JUNE 12, 2012**

NEW COURSE PROPOSAL – SECOND READING

MATH 235 **Integrated Algebra**

10 Units, 10 Lec

This course is a blend of a standard elementary and intermediate algebra courses with the focus on linear equations and inequalities, graphs and functions, systems of equations, polynomials and polynomial functions/equations, factoring, rational expressions and equations, roots, radicals, and complex numbers, exponential and logarithmic functions, and problem solving strategies.

MATH 415 **Math Boot Camp 2**

1-3 Units, 1-3 Lec

A remedial mathematics course designed for those students who need to learn, or re-learn the fundamental concepts of math. The primary emphasis is on algebraic expressions, linear/quadratic equations and applications, polynomials, graphing, and functions. This is a pass/no pass class. Units earned in this course do not count toward the associate degree and/or certain certificate requirements.

MODIFICATIONS TO EXISTING COURSES – FORM C

CD 32 **Introduction to Curriculum**

3 Units, 3 Lec

Renumber CD 21 to CD 32.

Inactivate old **CD 21**.

Rationale: Recommendation by curriculum review team. CD21 was modified in 2010 to comply with the CA Child Development Alignment Project guidelines. At that time content and number of units were changed to the existing CD21. We are now moving forward in having the CD21 course listed in our AA content/graduation requirements and a concern came to the table. Students taking the course as CD21 before the revision two years ago and for 2 units had different content/outcomes. The recommendation was to change the number completely so, there would be no confusion.

BIO 1 **Cell and Molecular Biology**

4 Units, 3 Lec, 3 Lab

Change Title:

FROM: General Biology

TO: Cell and Molecular Biology

Change description:

A general biology course with an emphasis on the structure and function of cells, biological molecules, homeostasis, cell respiration, photosynthesis, cell life cycle and its controls, cellular communication, Mendelian and non-classical genetics, evolution and diversity of life. The philosophy of science, methods of scientific inquiry and experimental design are foundational to the course. The course is required for students majoring in biology and/or its subcategories (e.g., plant or animal sciences).

Update prerequisite: Biology 10 or Biology 12 or ES 1 with a grade of 'C' or better and MATH 233 and CHEM 30A with a grade of 'C' or better.

Update content, student learning outcomes and textbook.

MATH 1A **Single-Variable Calculus and Analytic Geometry** **4 Units, 4 Lec**
Update textbook and student learning outcomes.

MATH 1B **Single-Variable Calculus and Analytic Geometry** **4 Units, 4 Lec**
Update textbook and student learning outcomes.

MATH 1C **Multivariable Calculus** **4 Units, 4 Lec**
Update textbook and student learning outcomes.

THEA 3 **El Teatro Campesino** **3 Units, 3 Lec**
Add to list of courses meeting cultural diversity requirements.
Change description:

Reading, viewing and discussing the development of the Chicano (Mexican American) culture in American Society reflected in the works of playwright and director Luis Valdez and El Teatro Campesino (The Farm Worker's Theater) are the focus of this course. It traces the historical and cultural influences of the theatrical company from its creation in 1965 to the present. Students will read actos, plays and view live theatrical production, film and video produced by El Teatro Campesino. This course has the option of a letter grade or pass/no pass.

THEA 2A **Children's Theatre** **3 Units, 2 Lec, 3 Lab**
FROM: 2 Units, 1 Lec, 3 Lab
TO: 3 Units, 2 Lec, 3 Lab
Update content, student learning outcomes and content.

THEA 2B **Children's Theatre** **3 Units, 2 Lec, 3 Lab**
FROM: 2 Units, 1 Lec, 3 Lab
TO: 3 Units, 2 Lec, 3 Lab
Update content, student learning outcomes and content.

THEA 14
Update content and student learning outcomes.

THEA 15
Update student learning outcomes and textbook.

DISTANCE EDUCATION – FORM D

ECON 1 Principles of Macroeconomics **3 Units, 3 Lec**
Justification: It is currently offered via distance education on the basis that this forum increases access to students, including some who would not otherwise be able to participate due to transportation and scheduling issues.

MUS 21 Electronic Music/Sound Design **3 Units, 2 Lec, 3 Lab**
Justification: This course is ideal for offering as a hybrid course because of the considerable amount of lecture and groupwork that can be conducted via an online format. Additionally, the online component for this course will enable students the flexibility to more easily collaborate with their classmates and instructor particularly in sharing their observation reports.

NON SUBSTANTIAL CHANGE TO EXISTING PROGRAM – CCC-511

Child Development

Add CD 32, Introduction to Curriculum, to list of electives. (Previously CD 21.)

Economics

Update program learning outcomes:

- 1) Identify and discuss causes of long-run economic growth and short term business cycle fluctuations in growth (e.g. recessions and expansions), and policy responses and initiatives affecting each.

- 2) Apply marginal analysis to resource allocation decisions in a variety of settings, including but not limited to: profit maximization strategies for firms in various competitive environments, and utility maximization strategies for consumers with budget constraints.

Media Arts

Reactivate Certificate of Achievement in Media Art: Television Production.

Broadcast Television “Certificate of Achievement”

THEA/MCTV 16	Television History and Practice.....	3 units
THEA/MCTV 17A	Television and Video Workshop.....	3 units
THEA/MCTV 17B	Television and Video Workshop.....	3 units
THEA/MCTV 19	Television and Film Acting.....	3 units
THEA/MCTV 20	Introduction to Scriptwriting.....	3 units

Choose one of the following courses: (2 units)

THEA 14	Stage Production	2 units
THEA 98	SPECIAL TOPICS: GAVTV 18- Producing	2 units
Total Units Required for Certificate of Achievement		17 units

SUBSTANTIAL CHANGE TO EXISTING PROGRAM – FORM CCC-510

Mathematics AS-T Degree

Add Associate in Science in Mathematics for Transfer degree.

Course #	Core Courses:	Unit Value
Math 1A	Single Variable Calculus and Analytic Geometry	4 units
Math 1B	Single Variable Calculus and Analytic Geometry	4 units
Math 1C	Muli-Variable Calculus	4 units
Electives:		
Math 2	Linear Algebra	3 units
Math 2C	Differential Equations	3 units
Engr 5	Engineering Problem Solving	3 units
Total units for the certificate or degree		21
Plus completion of CSU GE Breadth or IGETC:		39 - 42
Total units Required for AA/AS Degree:		60

NEW CREDIT PROGRAM – FORM CCC-501

Water Resource Management

Add AA Degree and Certificate of Achievement in Water Resource Management.

Course #	Core Courses:	Unit Value
WTRM 101	Introduction to Waste/Wastewater Technology	3.0 units
WTRM 102	Beginning Water/Wastewater Mathematics	3.0 units
WTRM 103	Introduction to Electrical and Instrumentation Processes	3.0 units
WTRM 105	Water Distribution 1	3.0 units
WTRM 106	Beginning Water Treatment Plant Operation	3.0 units
WTRM 107	Beginning Wastewater Treatment Plant Operation	3.0 units

Electives:

Select one of the following:

WTRM 108	Water Distribution 2	3.0 units
WTRM 109	Advanced Water Treatment Plant Operation	3.0 units
WTRM 110	Advanced Water/Wastewater Mathematics	3.0 units
WTRM 111	Advanced Wastewater Treatment Plant Operation	3.0 units
WTRM 112	Applied Hydraulics	3.0 units
WTRM 113	Beginning Wastewater Collections	3.0 units
WTRM 114	Laboratory Analysis Water/Wastewater	3.0 units
WTRM 115	Supervision	3.0 units

Electives:

Select two of the following:

WTRM 104	Motors/Pumps/Operation & Maintenance	3.0 units
WTRM 116	Advanced Wastewater Collections	3.0 units
WTRM 117	Water Use Efficiency Practitioner	3.0 units
WTRM 118	Industrial Wastewater Treatment	3.0 units
WTRM 119	Industrial Wastewater Treatment	3.0 units
WTRM 120	Pollution Prevention & Storm water Management	3.0 units
WTRM 121	Mechanical Maintenance	3.0 units
WTRM 190	Cooperative Work Experience	3.0 units

Total units for the certificate or degree	27-28 Units
Plus completion of CSU GE Breadth or IGETC:	39 - 42
Total units Required for AA/AS Degree:	60