

**Gavilan Joint Community College District
Governing Board Agenda**

May 10, 2016

Consent Agenda Item No.
Information/Staff Reports No.
Discussion Item No.
Old Business Agenda Item No.
New Business Agenda Item No. III:2(h)

Instruction Office

SUBJECT: Curriculum

Resolution: BE IT RESOLVED,

Information Only

Action Item

Proposal:

That the Board review and approve the recommendations of the Curriculum Committee as reflected in the attached Curriculum Summary.

Background:

The Curriculum Summary lists courses and programs approved by the Curriculum Committee.

Budgetary Implications:


None.

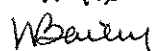
Follow Up/Outcome:

Curriculum modifications are incorporated into the college schedule and catalog.

Recommended By: Dr. Kathleen Rose, Executive Vice President and CIO

Prepared By: 
Dr. Kathleen Rose, Executive Vice President and Chief Instructional Officer

Agenda Approval: 
Dr. Steven M. Kinsella, Superintendent/President

APPROVED BY THE BOARD OF TRUSTEES
DATE: 5/10/16


**GAVILAN BOARD OF TRUSTEES MEETING
MAY 10, 2016
CURRICULUM SUMMARY**

NEW COURSE PROPOSAL – SECOND READING

WTRM 235 **Pollution Prevention**

3 Units, 3 Lec, 0 Lab

Study of the raw materials and chemicals used in industry and the changes that occur as they move through the industrial process. Topics include: regulations, the material balance concept of inventory, the importance of waste minimization/pollution prevention, and residential waste generation/reduction/ prevention.

WTRM 236 **OSHA Construction Industry Safety Course **1 Units, 1 Lec, 0 Lab****

This course covers OSHA standards and requirements as they apply to the construction industry and teaches safety awareness which helps in recognizing and reducing the risk of job site hazards. Emphasis will be on hazard identification, avoidance, control and prevention. Students who successfully complete this course will receive their 10-hour Construction safety course completion certificate/card.

MODIFICATION TO EXISTING COURSES – FORM C

BIO 12 **Human Biology**

4 Units, 3 Lec, 3 Lab

Change description:

This course will provide an introduction to human biology for non-science majors to meet general education laboratory science requirements. It will cover the biologic principles of basic body structure and function including all systems of the body, genetic diseases and current biotechnological advances as well as encompass the relationship between humans their environment and ecosystems. This course satisfies the same general education life science requirements as Biology 10 and Ecology 1.

Update textbook and student learning outcomes.

BIO 13 **Marine Biology**

4 Units, 3 Lec, 3 Lab

BIO 13 Advisory

Add advisory: Eligible for English 250, English 260 and Mathematics 430.

Update textbook and student learning outcomes.

CD 11C **Adult Supervision and Mentoring in Early Childhood Program**

2 Units, 2 Lec, 0 Lab

Alignment with the CAP expansion course for Adult Supervision and Mentoring.

Change title:

From: Supervision of Adults: The Mentor Teacher

To: Adult Supervision and Mentoring in Early Childhood Program

Change description:

A study of the methods and principles of supervising student teachers, volunteers, staff and other adults in early childhood programs. Emphasis is on the roles and development of early childhood professionals as mentors and leaders. This course meets the requirement for the State Child Development Permit matrix: "2 unit adult supervision class" and the Mentor Teacher Program.

Lectures, discussions, in class and out of class activities, role play simulations, readings, individual and group assignments as well as video and guest presenters will be used.

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

CD 13 Infant and Toddler Development and Care 3 Units, 3 Lec, 0 Lab

Change description

Students will apply current theory and research to the care and education of infants and toddlers in group settings. Through studying the developmental stages of growth specific to infants and toddlers students will learn how to foster positive techniques for nurturing infants and toddlers in group settings. Students will examine essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months.

This course has the option of a letter grade or pass/no pass.

ADVISORY: Eligible for English 250 and English 260. Child Development 2

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

CSIS 10 Introduction to Programming using BASIC 3 Units, 3 Lec, 0 Lab

Change course description:

This course is an introduction to programming using BASIC.

This course has the option of a letter grade or pass/no pass.

Update textbook and student learning outcomes.

CSIS 42 Python Programming 4 Units, 4 Lec, 0 Lab

Revise course description to make course sequence clear. Course sequence follows the sequence of C-ID courses with which our courses are aligned.

This course is for those new to programming and is the recommended first course to take before taking other programming classes. No previous programming background is assumed. The course introduces students to the fundamental concepts of computer programming using Python. Students will learn procedural and object-oriented programming design methodology. Topics covered include: output, input, variables, selection, repetition, functions, recursion, lists, strings, file manipulation, internet scripting, regular expressions, data mining and GUI.

Update textbook and student learning outcomes.

CSIS 45 Advisory C++ Programming I 3 Units, 2 Lec, 3 Lab

Add advisory: CSIS 42, Python Programming

CSIS 52 Linux/UNIX System Administration 3 units, 3 Lec, 0 Lab

Reactivate course.

Change units, hours:

From: 4 units, 3 Lec, 3 Lab

To: 3 units, 3 Lec, 0 Lab

Change description:

This course introduces students to the fundamentals of Linux/UNIX system administration: the setup, configuration and maintenance of Linux/UNIX servers. Topics include managing file systems, devices and user accounts, maintaining system backups and system logs, and basic system security. Students will configure a web-server, install programs, configure networking, and implement basic system security protocols.

Update textbook, student learning outcomes and content.

CSIS 132 Prerequisite Intermediate Word Processing - MS Word 2 Units, 2 Lec, 0 Lab

Add prerequisite: CSIS 126, Word Processing - MS Word

CSIS 134 Prerequisite Intermediate Excel 2 Units, 2 Lec, 0 Lab

Add prerequisite: ACCT/CSIS 121, Spreadsheet – MS Excel

DISTANCE EDUCATION – FORM D

CSIS 52 **Linux/UNIX System Administration**
Add online and hybrid.

3 units, 3 Lec, 0 Lab

GEOL 1 **Introduction to Geology**
Add hybrid.

4 Units, 3 Lec, 3 Lab

NEW CERTIFICATE OF PROFICIENCY – FORM J

Real Estate – Certificate of Proficiency

Course #	Required Courses	Unit Value
RE 160	Real Estate Principles	3
RE 162	Real Estate Practice	3
	Required Courses	Total Required: 6 units
	Choose one or more:	
RE 163	Real Estate Finance	3
RE 164	Real Estate Appraisal	3
RE 165	Legal Aspects of Real Estate	3
RE 167	Real Estate Economics	3
RE 168	Real Estate Escrow	3
BUS 80	Business Law	3
ACCT 20	Financial Accounting	4
	Select One Elective	Total Elective: 3 - 4 units
	Total units required for Certificate	9 – 10 Units

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MODIFICATION TO EXISTING AA- T DEGREE

Kinesiology Associate Degree for Transfer (AA-T)

Briefly describe change to program:

The department is revising their A.A.-T Degree to include more options under the Movement Based Courses, both in the number of areas listed (adding Dance) and the courses available under those areas. Students have been limited by the options available, especially after some activity courses were required to be moved from the KIN area to ATH.

Course ID	Course Title	Units	CSU-GE	IGETC Area
Required Core: (14 units, including Movement Based Courses)				
KIN 2	Introduction to Kinesiology	3		
BIO 7	Human Anatomy	4		
BIO 9	Human Physiology	4		
	<p>Movement Based Courses - Select a maximum of one (1) course, for a total of one (1) unit, from any three (3) of the following areas for a maximum of three (3) units:</p> <p>Aquatics (1 unit): KIN 16A-B Swimming or KIN 61A Swim for Fitness</p> <p>Combatives (1 unit): KIN 39 Fencing, KIN 71A Self Defense, or KIN 83 Karate</p> <p>Dance (1 unit): KIN 88A-B Social Dance</p> <p>Fitness (1 unit): KIN 24A Individualized Weight Training, KIN 44A-C Aerobics, KIN 62 Yoga, KIN 70A Pilates, KIN 74 Hiking, or KIN 82A Circuit Training</p> <p>Individual Sports (1 unit): KIN 17A-B Golf, KIN 18A-C Tennis, KIN 19A Badminton, KIN 20A Bowling, or KIN 31A Archery</p> <p>Team Sports (1 unit): KIN 80A Ultimate Frisbee, KIN 121A-C Volleyball, KIN 125A Soccer, KIN 127A-C Basketball, or KIN 137A Softball</p>	3		
Restricted Electives/LIST A: (Select 6 units from the following - these courses may also count				

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toward GE requirements:)			
MATH 5	Introduction to Statistics	3	
BIO 12	Introduction to Human Biology	4	
CHEM 1A or CHEM 1B	General Chemistry	5	
CHEM 12A or CHEM 12B	Organic Chemistry	5	
PHYS 2A or PHYS 2B	General Physics I and II	4	
AH 30 or AH 32	Standard First Aid and Cardiopulmonary Resuscitation or Basic Cardiac Life Support	2 or 1	
Total Units for the Major:		20 - 24	
Total Units that may be double-counted <i>(Ensure that the total for each Area does not exceed the limit for the specific Area)</i>			sum
General Education (CSU GE or IGETC) Units			39
Electives (as needed to reach 60 units)			sum
Total Degree Units (minimum)			60

MODIFICATION TO EXISTING AA DEGREE AND CERTIFICATE OF ACHIEVEMENT

Digital Media AA Degree

Course ID	Course Title	Units	Gavilan GE
Required Core: (12 units)			
DM/CSIS 75	Photoshop I	3	GAV_GE C1
DM/CSIS 76	Digital Illustration	3	GAV_GE C1
DM/CSIS 77	Introduction to Digital Media	3	GAV_GE C1
DM/CSIS 107	Digital Media Design	3	no
Restricted Electives/LIST A: (6 units - Option in Digital Design and Imaging: choose 2 courses from List A)			
DM/CSIS 85	Web Design	3	GAV_GE C
DM/CSIS 74	Advanced Photoshop	3	GAV_GE C1
DM/CSIS 80	Digital Photography	3	GAV_GE C1
LIST B: (6 units - Option in Digital Video and Animation: choose 2 courses from List B)			
DM 60	Introduction to Animation	3	no
DM 61	3D Animation	3	no
DM/CSIS 113	Digital Video	3	GAV_GE C1
DM/CSIS 117	Visual Effects/Motion Graphics	3	no
LIST C: (6-7 units - Option in Interactive Media: choose 6 to 7 units from List C)			
DM/CSIS 6	Web Page Authoring	3	GAV_GE E2
CSIS 42	Python Programming	4	no

CSIS 45	C++ Programming I	3	GAV GE E2
CSIS 84	JavaScript Programming	2	no
DM/CSIS 160	Game Design	3	no
Total Units for the Major:			18-19
Total Units that may be double-counted (Ensure that the total for each Area does not exceed the limit for the specific Area)			sum
Gavilan General Education Units			35
Electives (as needed to reach 60 units)			sum
Total Degree Units (minimum)			60

Digital Design and Imaging Certificate of Achievement

Course ID	Course Title	Units
Required Core: (12 units)		
DM/CSIS 75	Photoshop I	3
DM/CSIS 76	Digital Illustration	3
DM/CSIS 77	Introduction to Digital Media	3
DM/CSIS 107	Digital Media Design	3
	Sum of Core Units	12 units
Electives: (6 units - choose 2 courses)		
DM/CSIS 85	Web Design	3
DM/CSIS 74	Advanced Photoshop	3
DM/CSIS 80	Digital Photography	3
	Sum of Electives	6 units
Total Units for the Certificate:		18 units

Interactive Media Certificate of Achievement

Course ID	Course Title	Units
Required Core: (12 units)		
DM/CSIS 75	Photoshop I	3
DM/CSIS 76	Digital Illustration	3
DM/CSIS 77	Introduction to Digital Media	3
DM/CSIS 107	Digital Media Design	3
	Sum of Core Units	12 units
Electives: (6 - 7 units)		
DM/CSIS 6	Web Page Authoring	3
CSIS 42	Python Programming	4
CSIS 45	C++ Programming I	3
CSIS 84	Javascript Programming I	2
DM/CSIS 160	Game Design	3
	Sum of Electives	6 - 7 units
Total Units for the Certificate:		18 - 19 units

Digital Video and Animation Certificate of Achievement

Course ID	Course Title	Units
Required Core: (12 units)		
DM/CSIS 75	Photoshop I	3
DM/CSIS 76	Digital Illustration	3
DM/CSIS 77	Introduction to Digital Media	3
DM/CSIS 107	Digital Media Design	3
	Sum of Core Units	12 units
Electives: (6 units - choose 2 courses)		
DM 60	Introduction to Animation	3
DM 61	3D Animation	3
DM/CSIS 113	Digital Video	3
DM/CSIS 117	Visual Effects/Motion Graphics	3
	Sum of Electives	6 units
Total Units for the Certificate:		18 units

NEW AA DEGREE AND CERTIFICATE OF ACHIEVEMENT

Wastewater Collection Technology Education AA Degree

Course ID	Course Title	Units
Required Core: (21 units)		
WTRM 101	Introduction to Water/Wastewater Technology	3
WTRM 102	Beginning Water/Wastewater/Distribution Math	3
WTRM 103	Introduction to Electrical and Instrumentation Processes	3
WTRM 104	Motors and Pumps/Operation and Maintenance	3
WTRM 107	Beginning Wastewater Treatment Operations	3
WTRM 113	Beginning Wastewater Collection	3
WTRM 116	Advanced Wastewater Collections	3
Restricted Electives/LIST A: (3 units - Select one of the following:)		
WTRM 105	Water Distribution 1	3
WTRM 106	Beginning Water Treatment Plant Operation	3
WTRM 109	Advanced Water Treatment Plant Operation	3
WTRM 110	Advanced Water/Wastewater/Distribution Math	3
WTRM 111	Advanced Wastewater Treatment Plant Operation	3
WTRM 112	Applied Hydraulics	3
WTRM 114	Laboratory Analysis for Water/Wastewater	3
WTRM 115	Supervision	3
LIST B: (4 - 8 units - Select two of the following:)		
WTRM 118	Introduction to Occupational Health and Safety	3
WTRM 121	Mechanical Maintenance	3
WTRM 132	Advanced Water Distribution	3

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WTRM 133	Water Conservation	3
WTRM 134	Industrial Wastewater and Stormwater Management	4
WTRM 235	Pollution Prevention	3
WTRM 190	Occupational Work Experience/ Water/Wastewater Technology	1 - 4
Total Units for the Major:		28 - 32
Total Units that may be double-counted		0
General Education Units		35
Electives as needed to reach 60 Units		0
TOTAL DEGREE UNITS		63 - 67

Wastewater Technology Education AA Degree

Course ID	Course Title	Units
Required Core: (21 units)		
WTRM 101	Introduction to Water/Wastewater Technology	3
WTRM 102	Beginning Water/Wastewater/Distribution Math	3
WTRM 103	Introduction to Electrical and Instrumentation Processes	3
WTRM 104	Motors and Pumps/Operation and Maintenance	3
WTRM 107	Beginning Wastewater Treatment Operations	3
WTRM 111	Advanced Wastewater Treatment Plant Operation	3
WTRM 113	Beginning Wastewater Collection	3
Restricted Electives/LIST A: (3 units - Select one of the following:)		
WTRM 109	Advanced Water Treatment Plant Operation	3
WTRM 110	Advanced Water/Wastewater/Distribution Math	3
WTRM 112	Applied Hydraulics	3
WTRM 114	Laboratory Analysis for Water/Wastewater	3
WTRM 115	Supervision	3
WTRM 132	Advanced Water Distribution	3
LIST B: (4 - 8 units - Select two of the following:)		
WTRM 116	Advanced Wastewater Collections	3
WTRM 118	Introduction to Occupational Health and Safety	3
WTRM 121	Mechanical Maintenance	3
WTRM 133	Water Conservation	3
WTRM 134	Industrial Wastewater and Stormwater Management	4
WTRM 235	Pollution Prevention	3
WTRM 190	Occupational Work Experience/ Water/Wastewater Technology	1 - 4

Total Units for the Major:	28 - 32
Total Units that may be double-counted	0
General Education Units	35
Electives (as needed to reach 60 units)	0
Total Degree Units	63 - 67

Water Distribution Technology Education AA Degree

Course ID	Course Title	Units
Required Core: (21 units)		
WTRM 101	Introduction to Water/Wastewater Technology	3
WTRM 102	Beginning Water/Wastewater/Distribution Math	3
WTRM 103	Introduction to Electrical and Instrumentation Processes	3
WTRM 104	Motors and Pumps/Operation and Maintenance	3
WTRM 105	Water Distribution 1	3
WTRM 106	Beginning Water Treatment Plant Operation	3
WTRM 132	Advanced Water Distribution	3
Restricted Electives/LIST A: (3 units - Select one of the following:)		
WTRM 107	Beginning Wastewater Treatment Operations	3
WTRM 109	Advanced Water Treatment Plant Operation	3
WTRM 110	Advanced Water/Wastewater/Distribution Math	3
WTRM 111	Advanced Wastewater Treatment Plant Operation	3
WTRM 112	Applied Hydraulics	3
WTRM 113	Beginning Wastewater Collection	3
WTRM 114	Laboratory Analysis for Water/Wastewater	3
WTRM 115	Supervision	3
LIST B: (4 - 8 units - Select two of the following:)		
WTRM 116	Advanced Wastewater Collections	3
WTRM 118	Introduction to Occupational Health and Safety	3
WTRM 121	Mechanical Maintenance	3
WTRM 133	Water Conservation	3
WTRM 134	Industrial Wastewater and Stormwater Management	4
WTRM 235	Pollution Prevention	3
WTRM 190	Occupational Work Experience/ Water/Wastewater Technology	1 - 4
Total Units for the Major:		28 - 32
Total Units that may be double-counted		0
General Education Units		35
Electives (as needed to reach 60 units)		0
Total Degree Units		63 - 67

Water Technology Education AA Degree

Course ID	Course Title	Units
Required Core: (21 units)		
WTRM 101	Introduction to Water/Wastewater Technology	3
WTRM 102	Beginning Water/Wastewater/Distribution Math	3
WTRM 103	Introduction to Electrical and Instrumentation Processes	3
WTRM 104	Motors and Pumps/Operation and Maintenance	3
WTRM 105	Water Distribution 1	3
WTRM 106	Beginning Water Treatment Plant Operation	3
WTRM 109	Advanced Water Treatment Plant Operation	3
Restricted Electives/LIST A: (3 units - Select one of the following:)		
WTRM 107	Beginning Wastewater Treatment Operations	3
WTRM 110	Advanced Water/Wastewater/Distribution Math	3
WTRM 111	Advanced Wastewater Treatment Plant Operation	3
WTRM 112	Applied Hydraulics	3
WTRM 113	Beginning Wastewater Collection	3
WTRM 114	Laboratory Analysis for Water/Wastewater	3
WTRM 115	Supervision	3
WTRM 132	Advanced Water Distribution	3
LIST B: (4 - 8 units - Select two of the following:)		
WTRM 116	Advanced Wastewater Collections	3
WTRM 118	Introduction to Occupational Health and Safety	3
WTRM 121	Mechanical Maintenance	3
WTRM 133	Water Conservation	3
WTRM 134	Industrial Wastewater and Stormwater Management	4
WTRM 235	Pollution Prevention	3
WTRM 190	Occupational Work Experience/ Water/Wastewater Technology	1 - 4
Total Units for the Major:		28 - 32
Total Units that may be double-counted		0
General Education Units		35
Electives (as needed to reach 60 units)		0
Total Degree Units		63 - 67

Wastewater Collection Technology Education Certificate of Achievement

Course ID	Course Title	Units
Required Core: (21 units)		
WTRM 101	Introduction to Water/Wastewater Technology	3
WTRM 102	Beginning Water/Wastewater/Distribution Math	3
WTRM 103	Introduction to Electrical and Instrumentation Processes	3
WTRM 104	Motors and Pumps/Operation and Maintenance	3
WTRM 107	Beginning Wastewater Treatment Operations	3

WTRM 113	Beginning Wastewater Collection	3
WTRM 116	Advanced Wastewater Collections	3
Total Units for the Certificate:		21

Wastewater Technology Education Certificate of Achievement

Course ID	Course Title	Units
Required Core: (21 units)		
WTRM 101	Introduction to Water/Wastewater Technology	3
WTRM 102	Beginning Water/Wastewater/Distribution Math	3
WTRM 103	Introduction to Electrical and Instrumentation Processes	3
WTRM 104	Motors and Pumps/Operation and Maintenance	3
WTRM 107	Beginning Wastewater Treatment Operations	3
WTRM 111	Advanced Wastewater Treatment Plant Operation	3
WTRM 113	Beginning Wastewater Collection	3
Total Units for the Certificate:		21

Water Distribution Technology Education Certificate of Achievement

Course ID	Course Title	Units
Required Core: (21 units)		
WTRM 101	Introduction to Water/Wastewater Technology	3
WTRM 102	Beginning Water/Wastewater/Distribution Math	3
WTRM 103	Introduction to Electrical and Instrumentation Processes	3
WTRM 104	Motors and Pumps/Operation and Maintenance	3
WTRM 105	Water Distribution I	3
WTRM 106	Beginning Water Treatment Plant Operation	3
WTRM 132	Advanced Water Distribution	3
Total Units for the Certificate:		21

Water Technology Education Certificate of Achievement

Course ID	Course Title	Units
Required Core: (21 units)		
WTRM 101	Introduction to Water/Wastewater Technology	3
WTRM 102	Beginning Water/Wastewater/Distribution Math	3
WTRM 103	Introduction to Electrical and Instrumentation Processes	3
WTRM 104	Motors and Pumps/Operation and Maintenance	3
WTRM 105	Water Distribution I	3
WTRM 106	Beginning Water Treatment Plant Operation	3
WTRM 109	Advanced Water Treatment Plant Operation	3
Total Units for the Certificate:		21

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