Diablo Valley College Mission Statement

We inspire, educate, and empower students to transform their lives and their communities. We guide students to achieve their goals by awarding degrees and certificates, preparing them for transfer to four-year colleges and universities, facilitating entrance to and advancement in careers, and fostering personal growth.
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PROGRAM AND COURSE DESCRIPTIONS

Chapter Four

Catalog 2022-2023

NOTE: ALL INFORMATION IN THIS ADDENDUM IS EFFECTIVE FALL 2022 UNLESS OTHERWISE NOTED.

COURSE CHANGES

Underline = addition

BIOLOGICAL SCIENCE - BIOSC

BIOSC-170 Environmental Science
3 units SC
• IGETC: 5B; CSU GE: B2; DVC GE: II
• 54 hours lecture per term
• Advisory: College-level reading and writing are expected. BIOSC-101 or 102 or equivalents
• Note: Students who have successfully completed BIOSC-171 should not enroll in BIOSC-170. Students who have successfully completed BIOSC-171 will not receive credit for BIOSC-170.

This is an introductory course designed to expose students to environmental science. Human interactions with the environment and their consequences for living and nonliving systems will be examined. Topics will include evolution, ecology, biodiversity, human population dynamics, natural resource use, pollution, environmental degradation, climate change, marine and freshwater resources, and environmental policy. C-ID ENVS 100, CSU, UC (credit limits may apply to UC - see counselor)

ENGINEERING - ENGIN

ENGIN-135 Programming for Scientists and Engineers
4 units LR
• 54 hours lecture/54 hours laboratory per term
• Prerequisite: MATH-192 (may be taken concurrently) or equivalent
• Advisory: College-level reading and writing are expected.

This course presents an introduction to programming in C/C++ for engineers and scientists. Topics include flowcharts, algorithm design principles, algebraic operations, decision making, loops, records, data structures, file input output operations and linked lists. Students will apply programming principles of numerical methods in science and engineering. C-ID ENGR 120, CSU, UC

MUSIC - MUSIC

MUSIC-135 Vocal Jazz Ensemble
1 unit SC
• May be repeated three times
• 72 hours laboratory per term
• Limitations on Enrollment: Audition required. Specific days and times are announced in the Schedule of Classes.

This course focuses on the study, rehearsal, and public performance of standard vocal jazz ensemble literature for mixed voices. New literature will be studied each semester to address a variety of technical and artistic issues. C-ID MUS 180, MUS 185, CSU, UC

MUSIC-252 Piano Ensemble
1 unit SC
• May be repeated three times
• 72 hours laboratory per term
• Limitation on Enrollment: Audition required. Specific days and times are announced in the Schedule of Classes.

This course focuses on the study, rehearsal, and public performance of literature for piano ensemble (piano 4-hands, piano 8-hands, chamber music with piano, instrumental sonatas, voice and piano) with an emphasis on the development of skills needed to perform within a piano ensemble. Different literature will be studied each semester so that different technical and artistic issues are addressed. Pianists, instrumentalists, and vocalists are encouraged to audition. C-ID MUS 185, CSU, UC
LIMITATIONS ON ENROLLMENT CHANGES

MUSIC - MUSIC

Janette Funaro, Dean
Arts and Communication Division
Art Complex, 156

Limitations on enrollment
Effective fall term 2013, changes to the regulations that govern community college enrollments placed limitations on the number of courses that students may take in certain disciplines within the Contra Costa Community College District. The charts below indicate which Diablo Valley College (DVC) courses are assigned to groups of courses (“families”) for which limitations have been imposed. Certain courses within certain “families” may be repeated (see catalog description), however, students are limited to four experiences within the family. Certain DVC courses are equivalent to courses at Los Medanos College and Contra Costa College. An enrollment in an equivalent course at one of those colleges will count toward the allowable four enrollments within the family.

NOTE: Diablo Valley College may offer experimental or topics courses. When appropriate, based on content, such courses will be assigned to a “family” and that enrollment will be counted as an experience within the “family”.

Family: Class classical guitar
MUSIC-101 Beginning Guitar
MUSIC-102 Intermediate Guitar
MUSIC-160 Beginning Guitar I
MUSIC-161 Beginning Guitar II
MUSIC-262 Intermediate Guitar I
MUSIC-263 Intermediate Guitar II

CERTIFICATE CHANGES

ENGINEERING TECHNOLOGY – ENGTC

Despina Prapavessi, Dean
Math and Engineering Division
Mathematics Building, Room 267

Certificate of accomplishment – Robotics
Students completing this program will be able to...
A. Program robots to perform or simulate industrial applications.
B. Identify, measure, and analyze series, parallel, and series-parallel circuits mathematically and experimentally.
C. Diagnose and troubleshoot mechanical systems.
D. Demonstrate competence in principles and operation of basic hydraulic systems; use flow meters and pressure gauges to measure valves and make adjustments.

This certificate of accomplishment prepares students with foundational skills related to jobs in the robotic industry that include operating, diagnostics, and repair. Robotics jobs can be found within the fields of research and development (R&D), advanced manufacturing, industrial production, distribution logistics, and the biomedical industries. Disciplines of study may include programming, motors and controllers, direct current circuits, hydraulic and pneumatic systems, mechanical systems and components, and applications for industrial robotics. The labor market for these high-wage occupations in the Bay Area is strong.

Today’s advanced manufacturing industries, distribution centers, and medical research facilities are increasingly dependent on robotic systems to provide highly accurate and uninterrupted throughput. With the dependence on highly complex equipment, specialized robotic operators and technicians are required within these facilities. This certificate of accomplishment will prepare graduates to problem solve for a variety of technical applications with an emphasis on industrial machinery, electronics, and programming. Students will also learn how to practice safety within high-tech facilities.

To earn a certificate of accomplishment, students must complete each course used to meet a certificate requirement with a “C” grade or higher.

three units from::
ELTRN-107 Introduction to Robotics .................................................2
ENGTC-180 Applications for Industrial Robotics ..................................3

plus at least 2 units from:
ELECT-110 Survey of Electricity ......................................................... 2
ELECT-120 Direct Current Circuits ....................................................... 4

plus at least 3 units from:
ENGTC-175 Hydraulic and Pneumatic Systems and Components ....... 3
ENGTC-176 Mechanical Systems and Components .............................3

total minimum required units .............................................. 7
NEW CERTIFICATES

KINESIOLOGY – KINES

Christine Worsley, Dean
Kinesiology, Athletics, and Health Sciences Division
Kinesiology Office Building, Room 104

Certificate of achievement – Fitness coach

Students completing this program will be able to...
A. define the varying roles and responsibilities within the fitness industry.
B. create evidence-based fitness goals and programs for clients.
C. describe the scope of practice for the various careers and their tasks within the fitness industry.

The fitness coach certificate is a 13-unit course of study that will expose students to the basic strategies of working within a fitness facility while preparing them for various general capacities within a fitness facility that require less technical ability than more independent positions. Completion of the certificate requirements will prepare students with entry level knowledge regarding the modern state of health and fitness, define the varying scopes of practice in the fitness industry, and give prospective to differentiate evidence-based practices from fitness fads and myths.

To earn a certificate of achievement, a student must complete each course used to meet a certificate requirement with a grade of “C” or higher.

required courses: units
KINES-100 Fitness and Wellness ................................................. 1
KINES-240 Principles of Optimizing Human Performance ........ 3
KINES-242 Exercise Techniques and Fitness Assessments ....... 1
KINES-250 Professional Aspects of Personal Training ....... 3
KINES-254 Practical Experience in Personal Training and Fitness Instruction I ......................................................... 4

plus at least one unit from:
KNACT-100A Beginning Hatha Yoga ........................................... 1
KNACT-100B Intermediate Hatha Yoga ....................................... 1
KNACT-110C Advanced Hatha Yoga ......................................... 1
KNACT-122A Beginning Exercise, Balance, and Mobility ....... 1
KNACT-122B Intermediate Exercise, Balance, and Mobility ..... 1
KNACT-124A Beginning Strength, Core, and More ................. 1
KNACT-124B Beginning Strength, Core, and More ................. 1
KNACT-128A Beginning Cardio Kickboxing ............................. 1
KNACT-128B Intermediate Cardio Kickboxing ......................... 1
KNACT-140 Indoor Cycling ...................................................... 1
KNACT-144A Beginning Strength and Cardio Circuit Training .... 1
KNACT-144B Intermediate Strength and Cardio Circuit Training ................................................................. 1

Certificate of achievement – Personal training entrepreneurship

Students completing this program will be able to...
A. conduct assessment of personal fitness levels.
B. develop a conditioning program to improve conditioning levels utilizing the periodization model.
C. design a conditioning program to meet the unique needs of special populations.
D. construct a business plan and essential financial documents for a small business.
E. describe basic accounting and marketing knowledge to support a business.

The personal training entrepreneurship certificate program will allow students to develop the business skills needed to start and run their own personal training businesses or to increase their employability in the local fitness industry.

To earn a certificate of achievement, a student must complete each course used to meet a certificate requirement with a grade of “C” or higher.

required courses: units
KINES-100 Fitness and Wellness ................................................. 1
KINES-240 Principles of Optimizing Human Performance ........ 3
KINES-242 Exercise Techniques and Fitness Assessments ....... 1
KINES-250 Professional Aspects of Personal Training ....... 3
KINES-254 Practical Experience in Personal Training and Fitness Instruction I ......................................................... 4
NUTRI-120 Sports Nutrition: Fueling the Athlete ..................... 3

plus at least one unit from:
BUSMG-191 Small Business Management .................................. 3
BUSMG-192 Entrepreneurship and Venture Management ........ 3

plus at least three units from:
BUSAC-185 QuickBooks Accounting for Business I ................. 1.5
BUSAC-188 QuickBooks Accounting for Business II ............... 1.5
BUSMK-259 Digital Marketing Fundamentals .......................... 3
BUSMK-260 Social Media Marketing ......................................... 3

plus at least three units from:
KNACT-100A Beginning Hatha Yoga ........................................... 1
KNACT-100B Intermediate Hatha Yoga ....................................... 1
KNACT-110C Advanced Hatha Yoga ......................................... 1
KNACT-122A Beginning Exercise, Balance, and Mobility ....... 1
KNACT-122B Intermediate Exercise, Balance, and Mobility ..... 1
KNACT-124A Beginning Strength, Core, and More ................. 1
KNACT-124B Beginning Strength, Core, and More ................. 1
KNACT-128A Beginning Cardio Kickboxing ............................. 1
KNACT-128B Intermediate Cardio Kickboxing ......................... 1
KNACT-140 Indoor Cycling ...................................................... 1
KNACT-144A Beginning Strength and Cardio Circuit Training .... 1
KNACT-144B Intermediate Strength and Cardio Circuit Training ................................................................. 1

total minimum required units 22

required courses: units
KINES-100 Fitness and Wellness ................................................. 1
KINES-240 Principles of Optimizing Human Performance ........ 3
KINES-242 Exercise Techniques and Fitness Assessments ....... 1
KINES-250 Professional Aspects of Personal Training ....... 3
KINES-254 Practical Experience in Personal Training and Fitness Instruction I ......................................................... 4
NUTRI-120 Sports Nutrition: Fueling the Athlete ..................... 3

plus at least one unit from:
KNACT-100A Beginning Hatha Yoga ........................................... 1
KNACT-100B Intermediate Hatha Yoga ....................................... 1
KNACT-110C Advanced Hatha Yoga ......................................... 1
KNACT-122A Beginning Exercise, Balance, and Mobility ....... 1
KNACT-122B Intermediate Exercise, Balance, and Mobility ..... 1
KNACT-124A Beginning Strength, Core, and More ................. 1
KNACT-124B Beginning Strength, Core, and More ................. 1
KNACT-128A Beginning Cardio Kickboxing ............................. 1
KNACT-128B Intermediate Cardio Kickboxing ......................... 1
KNACT-140 Indoor Cycling ...................................................... 1
KNACT-144A Beginning Strength and Cardio Circuit Training .... 1
KNACT-144B Intermediate Strength and Cardio Circuit Training ................................................................. 1

total minimum required units 13