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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## 2019-2020 catalog sections

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PROGRAM AND COURSE DESCRIPTIONS

ART DIGITAL MEDIA – ARTDM

Certificate of accomplishment
Art digital media - Foundation
Students completing the program will be able to...
A. discuss the career opportunities available in the field of digital media.
B. describe the different applications of digital media such as website, mobile application, and augmented reality.
C. produce and utilize digital images for exports to websites, multimedia presentations, and print.
D. design and create a multimedia project.
E. critically evaluate multimedia design concepts and techniques.

BIOLOGICAL SCIENCE – BIOSC

Associate in science degree
Allied health
Students completing the program will be able to...
A. illustrate and analyze chemical bonds and reactions.
B. demonstrate an understanding of the structure and growth of microbes.
C. demonstrate knowledge of the structure and function of the human body.
D. demonstrate knowledge of the structure of the human body including both normal and pathological conditions.
E. demonstrate knowledge of cell structure and function.

Certificate of achievement
Allied health fundamentals
Students completing the program will be able to...
A. demonstrate an understanding of the structure and growth of microbes.
B. demonstrate knowledge of the structure and function of the human body.
C. demonstrate knowledge of changes in bodily functions as a result of disease and determine the reason for functional changes.
D. analyze chemical reactions.
E. demonstrate knowledge of cell structure and function.
NEW COURSES

**Underline** = addition

**HORT-151**  Controlled Environment Growing (CEG): Methods of Plant Production  
3 units SC  
- 36 hours lecture/54 hours laboratory per term  
- Recommended: HORT-110 or equivalent

This course presents the history, current state, and future of Controlled Environment Growing (CEG), also known as Controlled Environment Agriculture (CEA). Topics include hydroponics, aquaponics, and aeroponic systems, as well as a review of basic plant anatomy and physiology. Emphasis is placed on cultural practices, plant protection (insects and diseases), pollination/fertilization and bee management, plant nutrition and disorders, irrigation systems and nutrient solutions, transplant production, structures, control systems and energy conservation, harvesting, grading and storage, marketing and economics of CEG systems. CSU

**IDSGN-137**  Digital Fabrication and Prototyping  
3 units SC  
- 36 hours lecture/72 hours laboratory per term  
- Recommended: ENGTC-119 or equivalent  
- Note: Students may petition to repeat this course when software or hardware is changed. Only the first course completed will be applied toward a degree or certificate requirement. Units for both courses will apply towards the 60 units required for the degree.

This is an introductory course in design prototyping and digital fabrication methods. Manual and digital modeling with an exploration of computer numerical control (CNC) fabrication methods will be explored. Shaping and material removal using three-axis and five-axis CNC fabrication tools for a variety of materials, including plastics, wood, metals, and ceramics will be practiced in addition to three-dimensional printing methods. CSU

**INTD-080NC**  Problem Solving Skills for Science and Engineering Courses  
0 units P/NP  
- 24 hours lecture per term  
- Note: Students enrolled in CHEM-107, CHEM-108, PHYS-110, PHYS-111, PHYS-113, PHYSC-112 and ENGIN-130 should check the schedule of classes for information about section offerings.

This course is designed to help students improve their math problem-solving abilities in the sciences. Algebra skills critical for success in introductory science courses will be applied to typical science discipline problems.

**INTD-081NC**  Applying Algebra Skills in Advanced Science and Engineering  
0 units P/NP  
- 24 hours lecture per term  
- Note: Students enrolled in CHEM-120, CHEM-121, ENGIN-121, ENGIN-140, PHYS-120, PHYS-121, PHYS-129, and PHYS-130 should check the schedule of classes for information about section offerings.

This course is designed to help students improve their math problem-solving abilities in the sciences. Algebra skills critical for success in advanced science and engineering major courses will be applied to typical science discipline problems.

COURSE CHANGES

**Underline** = addition

**ESL-112**  Reading and Writing Skills for ECE-125  
3 units SC  
- 54 hours lecture per term  
- Co-requisite: ECE-125 or equivalent  
- Recommended: ESL-088 or equivalent

This course is designed for English as a Second Language students concurrently enrolled in ECE-125. It is intended for advanced ESL students to develop college-level reading, writing, listening, speaking, and study skills at the same time as they are learning the content in ECE-125. This course will use the ECE-125 textbook as the subject matter on which to practice and build students’ English-language skills. CSU

**ESL-113**  Reading and Writing Skills for ECE-130  
3 units SC  
- 54 hours lecture per term  
- Co-requisite: ECE-130 or equivalent  
- Recommended: ESL-088 or equivalent

This course is designed for English as a Second Language students concurrently enrolled in ECE-130. It is intended for advanced ESL students to develop college-level reading, writing, listening, speaking, and study skills at the same time as they are learning the content in ECE 130. This course will use the ECE-130 textbook as the subject matter on which to practice and build students’ English language skills. CSU
NEW DEGREES

**Horticulture – HORT**

Associate in Science in Agriculture Plant Science for Transfer

Students completing this program will be able to:

A. recognize and remediate soil properties in terms of chemistry, plant growth requirements, erosion, organic content, pore space and carbon sequestration.

B. produce plants using sexual and asexual methods of propagation, identifying water, nutrient, light, pH and temperature requirements per crop to produce crop production cost estimates.

C. evaluate, formulate, and apply needed nutrients for specific crops grown on given soils on a seasonal basis.

D. demonstrate pest problem solving skills through data analysis of biological and environmental factors influencing pest populations and application of integrated pest management options.

E. describe how markets function as applied to plant science.

The associate in science in agriculture plant science for transfer degree (AS-T in Agriculture Plant Science) provides students with courses aligned for transfer to the California State University plant science baccalaureate majors and courses in agriculture plant sciences. Potential careers include: Pest Control Advisor (PCA), farm management positions, landscape design, greenhouse manager, quality control manager, county and governmental compliance inspector, sales and marketing of seed and crop related materials. Courses include soils, plant propagation, plant identification, plant pest control, and water management.

Students transferring to a CSU campus that accepts this degree will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. Students should consult with a counselor for more information on specific university admission and transfer requirements.

In order to earn the degree, students must:

- Complete 60 semester CSU-transferable units.
- Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern, including the Area 1C requirement for Oral Communication.
- Complete a minimum of 18 semester units in the major.
- Obtain a minimum grade point average (GPA) of 2.0.
- Earn a grade of “C” or higher in all courses required for the major.

Students transferring to a CSU campus that accepts the degree will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system, or those students who do not intend to transfer.

### Major Requirements: units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HORT-110*</td>
<td>Introduction to Horticulture and Plant Science</td>
<td>4</td>
</tr>
<tr>
<td>HORT-120</td>
<td>Soil Science and Management</td>
<td>3</td>
</tr>
<tr>
<td>HORT-121</td>
<td>Soil Science and Management Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM-108</td>
<td>Introductory Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-120</td>
<td>General College Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>ECON-221</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS-240</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH-142</td>
<td>Elementary Statistics with Probability</td>
<td>4</td>
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<tr>
<td>MATH-144</td>
<td>Statway II</td>
<td>4</td>
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</table>

*must take both as equivalent to C-ID AG-EH 116 I*

**Plus at least 3 units from:**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Units</th>
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<tr>
<td>HORT-111*</td>
<td>Plant Propagation and Production: Winter and Spring</td>
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<tr>
<td>HORT-112*</td>
<td>Plant Propagation and Production: Summer and Fall</td>
<td>3</td>
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<tr>
<td>HORT-113</td>
<td>Plant Materials and their Uses: Winter and Spring</td>
<td>3</td>
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<tr>
<td>HORT-114</td>
<td>Plant Materials and their Uses: Summer and Fall</td>
<td>3</td>
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<tr>
<td>CHEM-226</td>
<td>Organic Chemistry I</td>
<td>5</td>
</tr>
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</table>

**Total Minimum Required Units: 21**
CULINARY ARTS – CULN

Associate in science in hospitality management for transfer

Students completing this program will be able to...
A. demonstrate the proper application of dry, moist, and combination cooking methods to a variety of food products.
B. demonstrate current food service sanitation procedures.
C. serve food according to professional industry standards.
D. create menus that incorporate menu planning principles that maximize sales and profits.
E. apply management functions to food and beverage operations.
F. define the goals of various hospitality elements and related products and services.

The associate in science in hospitality management for transfer (AS-T) degree is intended to meet the lower division requirements for hospitality majors (or similar majors) at a CSU campus that offers a hospitality management baccalaureate degree. This degree is designed for students interested in gaining the basic concepts of hospitality management and to prepare them for jobs with local and global hotels, restaurants, airlines, cruise lines, sports arenas, entertainment, and amusement parks. On completion, students are ready to transfer into hospitality management and related degree programs at a CSU.

In order to earn the degree, students must:

- Complete 60 semester CSU-transferable units.
- Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern, including the Area 1C requirement for Oral Communication.
- Complete a minimum of 18 semester units in the major.
- Obtain of a minimum grade point average (GPA) of 2.0.
- Earn a grade of “C” or higher in all courses required for the major.

Students transferring to a CSU campus that accepts the degree will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system, or those students who do not intend to transfer.

Some courses in the major satisfy both major and CSUGE/IGETC general education requirements; however, the units are only counted once toward the 60-unit requirement for an associate’s degree. Some variations in requirements may exist at certain four-year institutions; therefore, students who intend to transfer are advised to refer to the catalog of the prospective transfer institution and consult a counselor.

<table>
<thead>
<tr>
<th>required course</th>
<th>units</th>
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<tr>
<td>CULN-110</td>
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<tr>
<td>plus at least 8 units from:</td>
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<tr>
<td>CULN-120</td>
<td>5</td>
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<tr>
<td>CULN-153</td>
<td>2</td>
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<tr>
<td>CULN-201</td>
<td>3</td>
</tr>
<tr>
<td>ECON-221</td>
<td>3</td>
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<tr>
<td>plus at least 7 units from any course not used above or:</td>
<td></td>
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<tr>
<td>BUSAC-186</td>
<td>4</td>
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<tr>
<td>BUS-294</td>
<td>3</td>
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<td>BUS-240</td>
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<td>MATH-142</td>
<td>4</td>
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<tr>
<td>MATH-144</td>
<td>4</td>
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<tr>
<td>PSYCH-101</td>
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</tbody>
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NEW CERTIFICATES

strikethrough = deletion  underline = addition

COMPUTER INFORMATION SYSTEMS – CIS

Certificate of achievement
Professional and technical workplace skills
Program learning outcomes for the professional workplace skills:
A. communicate clearly in writing
B. communicate clearly in meetings and oral presentations
C. perform essential functions in Microsoft Excel
D. demonstrate professionalism in daily interactions
E. deliver and receive feedback in a professional manner
F. work collaboratively with colleagues and clients

Program learning outcomes for the technical workplace skills: Helpdesk and desktop support
A. identify, assemble, and disassemble the major components of a personal computer.
B. describe the basics of networking and security forensics.
C. diagnose and troubleshoot common hardware, software, and networking issues.
D. identify the basics of virtualization, desktop imaging, and deployment.
E. create basic business documents including letters, memos, and email messages.

Program learning outcomes for the technical workplace skills: Project management support
A. utilize project management concepts, terminology, and processes.
B. use project management software to manage multi-faceted projects.
C. define a project plan and develop diagrams and charts to illustrate enterprise structure, workflow, and scheduling.
D. demonstrate basic graphical user interface operations in a computer environment.
E. produce spreadsheets, documents and presentations by using basic to advanced software operations.

The professional and technical workplace skills certificate of achievement program is designed in consultation with industry-wide professionals to address changing workforce needs. Students complete a set of interdisciplinary core courses that deliver communication and fundamental workplace competencies and select a specialization in one of the following areas: helpdesk and desktop support or project management support. In addition, students have the option to participate in work experience opportunities that reinforce classroom learning. This certificate will provide robust preparation for a student interested in a career in technology in either of these job categories.

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

Eligible DVC students have the option to complete this program in an accelerated format through the DVC Year Up program. See the college website for details.

required courses:

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<th>Course</th>
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<td>BUSMG-174</td>
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<td>CIS-116</td>
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<td>COMM-120</td>
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<td>COMSC-101</td>
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<td></td>
<td></td>
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<tr>
<td>total minimum required units</td>
<td>18</td>
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</tbody>
</table>

complete all units from one of the following specializations:

helpdesk and desktop support:
- BUS-101 Business English
- CNT-104 IT Essentials (A+)  
- plus at least 0-9 units from:
  - BUS-295 Occupational Work Experience
    - Education in BUS 1-4
  - BUS-296 Internship in Occupational Work Experience
    - Education in BUS 1-4

project management support:
- CIS-180 Introduction to Project Management
- CIS-185 Project Management Tools  
- plus at least 0-9 units from:
  - WRKX-180 Internship in Occupational Work Experience
    - Education in BUS 1-4

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NUTRITION – NUTRI

Certificate of achievement
Nutrition, health, and wellness

Students completing the program will be able to...
A. summarize the basic functions, food sources, digestion and absorption of the major nutrients.
B. analyze a menu and its preparation for nutritional adequacy and food sanitation practices.
C. describe the nutritional requirements and health concerns of each phase of the life span.
D. summarize the impact of food choices on exercise performance, as well as an expression of cultural, socioeconomic and geographical diversity.
E. compare and contrast career opportunities within the nutrition, health, and wellness professions.

This certificate of achievement in nutrition, health and wellness is designed to address the increasing societal interest in personal nutrition, health, and wellness. The wellness mindset has permeated all aspects of everyday life - from eating organic foods to using natural cleaning products to ending the day with meditation - and has emerged as one of the preeminent wellness trends of the new century. Rising health care costs and concerns with quality of life and longevity are also spurring individuals to learn more about what they can do to ensure a healthy body.

The certificate of achievement in nutrition, health and wellness may also serve as a supplementary skill set for individuals in various fields such as early childhood education, health education, fitness instruction, massage therapy, chiropractic medicine, nursing, and allied health occupations or individuals interested in entry-level employment in health and wellness programs such as Women, Infants, and Children (WIC) supplemental nutrition programs, Head Start programs, senior nutrition services and home delivered meal programs, Cal Fresh program, or other community agencies. Additionally, students completing the program will be able to provide advice on weight control and physical performance improvement while working under the supervision of other nutrition and fitness professionals. Such employment can encompass weight control clinics, health spas, corporate fitness and wellness centers, and gyms with a nutrition program.

The program primarily aims to provide the individual with the knowledge to maximize his or her own health and wellness. It may provide preparation for entry into certain nutrition, health and wellness-related jobs that do not require degrees or licensure. Certain required courses provide prerequisite preparation for advanced professional programs should students decide to pursue an associate or bachelor’s degree.

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
HSCI-124 Health and Wellness................................. 3
NUTRI-100 Introduction to the Nutrition Professions........ 1
NUTRI-120 Sports Nutrition: Fueling the Athlete.................. 3
NUTRI-130 Food and Nutrition: Cross Cultural Perspectives.............................................. 3
NUTRI-160 Nutrition: Science and Applications.................. 3
NUTRI-170 Nutrition: Across the Lifespan......................... 3

plus at least 2 units from:
CULN-153 Safety and Sanitation..................................... 2
PSYCH-101 Introduction to Psychology............................. 3

total minimum required units 18

WORKFORCE PREPARATION – WRKP

Certificate of completion
Workforce preparation for people with barriers to employment

Students completing this program will be able to...
A. summarize legal protections for job applicants with disabilities or criminal records.
B. explain desirable skills for employment, such as empathy, mindset, communication, self-awareness, and resilience.
C. determine if and when to disclose a barrier to employment, such as a disability, criminal record, etc.

This certificate of completion presents job search and retention skill development to students with challenges in obtaining employment, such as those with a disability or a criminal record. To earn a certificate of completion, students must complete both courses. The courses are noncredit. They are not degree applicable and do not transfer to the California State University (CSU) or University of California (UC) systems or other private universities.

required courses: units
WRKP-000NC Addressing Barriers to Employment I: Keeping a Job......................................................... 0
WRKP-001NC Addressing Barriers to Employment II: Getting a Job......................................................... 0

total minimum required units 0

strikethrough = deletion    underline = addition    strikethrough = deletion    underline = addition