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.
## Table of contents

### 2021-2022 catalog sections

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Changes to</th>
</tr>
</thead>
<tbody>
<tr>
<td>chapter one</td>
<td>GENERAL INFORMATION</td>
</tr>
<tr>
<td>none</td>
<td></td>
</tr>
<tr>
<td>chapter two</td>
<td>COLLEGE POLICIES</td>
</tr>
<tr>
<td>none</td>
<td></td>
</tr>
<tr>
<td>chapter three</td>
<td>TRANSFER, DEGREES, AND CERTIFICATES</td>
</tr>
<tr>
<td>none</td>
<td></td>
</tr>
<tr>
<td>chapter four</td>
<td>PROGRAM AND COURSE DESCRIPTIONS</td>
</tr>
<tr>
<td></td>
<td>Course changes...</td>
</tr>
<tr>
<td></td>
<td>New courses</td>
</tr>
<tr>
<td></td>
<td>New degrees</td>
</tr>
<tr>
<td></td>
<td>New certificates</td>
</tr>
</tbody>
</table>
Diablo Valley College catalog addendum 2021-2022 - New courses

PROGRAM AND COURSE DESCRIPTIONS

chapter four
catalog 2021-2022

NOTE: ALL INFORMATION IN THIS ADDENDUM IS EFFECTIVE FALL 2021 UNLESS OTHERWISE NOTED.

COURSE CHANGES

underline = addition

COMPUTER SCIENCE - COMSC

COMSC-240 Advanced Python Programming
3 units SC
• 45 hours lecture/27 hours laboratory per term
• Prerequisite: COMSC-140 or equivalent
• Note: See schedule of classes for programming language presented. 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 toward the 60 units required for the degree.

This advanced Python programming course is a continuation of COMSC-140, Python Programming, and is designed to prepare students for jobs as Python programmers. Regular expressions and classes are covered extensively along with elements of network programming such as File Transfer Protocol (FTP), web client, and web server. The course also covers graphics, database access, and Python extensions. CSU, UC

DANCE - DANCE

DANCE-201 Western Culture Dance History: 20th Century to Present
3 units SC
• IGETC: 3A; CSU GE: C1; DVC GE: III
• 54 hours lecture per term
• Recommended: ENGL-122 or equivalent

This course presents the role of dance in Western culture from the beginning of the 20th century through the present day as it is used to create and mediate meaning through performance. Emphasis is placed on understanding and using principles of inductive and deductive reasoning as well as on evaluation and creation of argument, persuasion, and criticism of visual culture topics from both visual, performance, and textual sources. Historic styles and movements of dance including the Diaghilev period of Ballet and the development of modern dance are discussed, emphasizing their influence on present-day ballet, modern, and contemporary dance practice. CSU, UC

POLITICAL SCIENCE - POLSC

POLSC-210 Political Ideology
3 units SC
• IGETC:4; CSU GE: D; DVC GE: IV
• 54 hours lecture per term

This course presents a comparative, conceptual, and historical analysis of competing ideological approaches to government. Emphasis is placed on the theories, values, and assumptions that make up a political ideology and the effect of such theories on a political system. Contemporary political ideological movements are explored. C-ID POLS 120, CSU, UC

NEW COURSES

underline = addition

ARCHITECTURE - ARCHI

ARCLA-120 Introduction to Landscape Design
3 units SC
• 36 hours lecture/54 hours laboratory per term
• Formerly HORT-180

This course presents the basic principles and concepts in the field of landscape architecture and environmental landscape design. The history of human impact on natural environments and methods to mitigate those impacts will be explored. Design standards and practices governing landscape architecture and design skills such as site analysis, planning, and construction design will be covered as part of the core of the profession. CSU, UC

ARCLA-121 Landscape Design I
3 units SC
• 36 hours lecture/54 hours laboratory per term
• Prerequisite: ARCLA-120 or equivalent
• Formerly HORT-182

This course explores advanced landscape design concepts including design principles, development of design concepts, and creative problem-solving techniques. Emphasis is placed on environmental context and other factors of design and form. CSU, UC
ARCLA-130 Landscape Drafting and Graphics
3 units SC
• 36 hours lecture/54 hours laboratory per term
• Prerequisite: ARCLA-120 or equivalent
• Formerly HORT-181
This course in landscape graphics covers the graphic representation of vegetation, topography, and landscape elements. The course will explore the techniques and methods utilized to represent landscape elements, including lettering, line weights, and scale in relation to landscape graphics. CSU, UC

BUSINESS - BUS

BUSMK-150 Topics in Business Marketing
3-4 units SC
• Variable hours
A supplemental course in business to provide a study of current concepts and problems in business marketing and related subdivisions. Specific topics will be announced in the schedule of classes. CSU

ENGLISH - ENGL

ENGL-091NC English Skills for Success - Noncredit
0 units SC
• 24 hours lecture per term
This noncredit course is a concise and focused foundation for reading and writing in college, along with the “studenting skills” necessary for college success. This course is designed for students to build successful academic habits and strengthen their English skills in preparation for taking transfer-level courses. Strategies for academic success along with campus resources and support services will be covered.

ENGL-121 Year-Long First Year College Composition and Reading, Part I
3 units LR
• 54 hours lecture per term
• Prerequisite: Placement into ENGL-122; or ENGL-122L; or ENGL-117; or ENGL-117A; or ENGL-116 and 118; or assessment process or equivalent
• Note: Successful completion of both courses is equivalent to taking and passing any of the following: ENGL-122, ENGL-122L, ENGL-122A, or ENGL-122AL. The successful completion of both ENGL-121 and ENGL-122X is required to meet the transfer-level English requirements satisfied by ENGL-122, ENGL-122L, ENGL-122A, or ENGL-122AL. Students who do not successfully complete both ENGL-121 and ENGL-122X will not get credit for transfer-level English.
ENGL-121 is the first part of a two-course series (followed by ENGL-122X) that covers the content of ENGL-122L (First-Year College Composition and Reading with Additional Support). The year-long sequence is designed for students who prefer to have more time to practice and master the reading and writing skills and academic habits required for success in First-Year College Composition and Reading. The first part of the sequence, ENGL-121, focuses on the practice of reading and writing at the college level, while also offering support, including effective reading, writing, and critical-thinking strategies. The course also encourages students to apply disciplined thought to language in order to comprehend and analyze college-level readings and to compose college-level essays that are coherent, detailed, and free of serious error. In their essays, students will use a variety of types of support, including primary and secondary research, and will employ varied rhetorical strategies used by accomplished writers. Students must pass ENGL-121 in order to move on to the second part of the sequence, ENGL-122X. CSU
ENGL-122X  Year-Long First Year College Composition and Reading, Part II
3 units  SC  
• IGETC: 1A; CSU GE: A2; DVC GE: IA  
• 54 hours lecture per term  
• Prerequisite: ENGL-121 or equivalent  
• Note: Successful completion of both ENGL-121 and ENGL-122X is equivalent to taking and passing any of the following: ENGL-122, ENGL-122L, ENGL-122A, or ENGL-122AL. The successful completion of both ENGL-121 and ENGL-122X is required to meet the transfer-level English requirements satisfied by ENGL-122, ENGL-122L, ENGL-122A, or ENGL-122AL. Students who do not successfully complete both ENGL-121 and ENGL-122X will not get credit for transfer-level English.

ENGL-122X is the second part of a two-course series that covers the content of ENGL-12L (First-Year College Composition and Reading with Additional Support). Students must have successfully completed ENGL-121 in order to be eligible for ENGL-122X. ENGL-122X builds on the skills of ENGL-121, continuing to focus on the practice of reading and writing at the college level, the habit of applying disciplined thought to language in order to comprehend and analyze college-level readings, and the composition of college-level essays that are coherent, detailed, and free of serious error. In their essays, students will use a variety of types of support, including primary and secondary research, and will employ varied rhetorical strategies used by accomplished writers. ENGL-122X continues to offer support, including effective reading, writing, and critical-thinking strategies. C-ID ENGL 100, CSU, UC (credit limits may apply to UC - see counselor)

ESL-060  Beginning English Grammar for Multilingual Students
2 units  SC  
• 36 hours lecture per term
This course is designed for multilingual students at the beginner level and provides grammar support for beginner ESL reading, writing, and oral skills courses. Students will practice basic grammar skills and editing strategies. The course emphasizes the fundamentals of English grammar and grammar terminology.

ESL-060NC  Beginning English Grammar for Multilingual Students - Noncredit
0 units  SC  
• 36 hours lecture per term
This course is designed for multilingual students at the beginner level and provides grammar support for beginner ESL reading, writing, and oral skills courses. Students will practice basic grammar skills and editing strategies. The course emphasizes the fundamentals of English grammar and grammar terminology.

ESL-100  College Grammar and Editing for Multilingual Students
2 units  SC  
• 36 hours lecture per term  
• Recommended: ESL-090 or equivalent
This is a grammar and editing course for high-advanced non-native English speakers at the college level. Students will review advanced English-grammar concepts and will be introduced to more advanced grammar concepts needed for college success. Students will also review editing strategies and learn ways to identify and correct errors in their own writing.

MATHEMATICS - MATH

MATH-001NC  Topics in Mathematics - Noncredit
0 units  SC  
• Variable hours
This noncredit course in mathematics provides the opportunity to present a variety of topics to meet the needs of basic skills students. Specific topics will be announced in the schedule of classes.

MATH-002NC  Fundamental Math Skills for the Statistics Pathway - Noncredit
0 units  SC  
• 24 hours laboratory per term
This noncredit course focuses on the specific math and study skills necessary for success in transfer-level statistics courses. Through practice and group work, students are prepared to enroll in statistics with confidence.

MATH-003NC  Fundamental Math Skills for Business and STEM Pathways - Noncredit
0 units  SC  
• 24 hours laboratory per term
This noncredit course focuses on the specific math and study skills necessary for success in transfer-level math courses in the Business or STEM pathways. Through practice and group work, students are prepared to enroll in transfer-level math with confidence.

MUSIC - MUSIC

MUSIC-131  World Music Repertoire
1 unit  SC  
• 72 hours laboratory per term
This class provides an opportunity for students to study and perform a wide range of solo and ensemble world music repertoire. Students are coached by faculty in technique, interpretation, and presentation in a master class format. Students will produce in-class and public performances during the course. Different world musics will be studied in alternation each semester, and may include Gamalan, West African drumming, Taiko, Mariachi, etc. CSU, UC
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
</table>
| MUSIC-161   | Beginning Guitar II | 1 unit | SC   | • 54 hours laboratory per term  
• Recommended: MUSIC-160 or equivalent  
• Note: Students must provide an acoustic six-string guitar for use in the course. |

This course provides continuing beginning six-string guitar instruction in both popular and classical styles. First position extended chords, chord substitutions, 5th and 6th string root bar chords, transposition, additional strums, styles, and accompaniment are presented. CSU, UC

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<tr>
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<th>Notes</th>
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| MUSIC-185   | Pop and Rock Repertoire | 1 unit | SC   | • 60 hours laboratory per term  
This class provides an opportunity for students to study and perform a wide range of solo and ensemble Pop and Rock repertoire. Students are coached by faculty in technique, interpretation, and presentation in a master class format. Students will produce in-class and public performances during the course. Different repertoire will be studied each semester, including the latest covers. CSU, UC |

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<tr>
<th>Course Code</th>
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<th>Units</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
</table>
| MUSIC-186   | R&B, Hip Hop, and Funk Repertoire | 1 unit | SC   | • 60 hours laboratory per term  
This class provides an opportunity for students to study and perform a wide range of solo and ensemble R&B, Hip Hop, and Funk repertoire. Students are coached by faculty in technique, interpretation, and presentation in a master class format. Students will produce in-class and public performances during the course. Different repertoire will be studied each semester, including the latest covers. CSU, UC |

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
</table>
| MUSIC-187   | Country, Bluegrass, and Folk Repertoire | 1 unit | SC   | • 60 hours laboratory per term  
This class provides an opportunity for students to study and perform a wide range of solo and ensemble Country, Bluegrass, and Folk repertoire. Students are coached by faculty in technique, interpretation, and presentation in a master class format. Students will produce in-class and public performances during the course. Different repertoire will be studied each semester, including the latest covers. CSU, UC |

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
</table>
| PHYS-112    | Elementary Physics with Laboratory | 4 units | LR   | • IGETC: 5A, 5C; CSU GE: B1, B3; DVC GE: II  
• 4 hours lecture/54 hours laboratory per term  
• Prerequisite: Placement into MATH-121; or MATH-119 or MATH 119SP; or MATH-120 or MATH-120SP; or assessment process; or equivalent  
• Note: Students specifically interested in focusing on modern physics should take PHYS-113. Students who have successfully completed PHYS-110 should not enroll in PHYS-112. Students who have successfully completed PHYS-110 will not receive credit for PHYS-112. |

This course provides an overview of physics. Forces, motion, heat, electricity and magnetism, optics, and modern physics are discussed. This course emphasizes topics in classical physics and includes measurement and analysis of mechanical, thermal, electrical, and optical phenomena. CSU, UC. (credit limits may apply to UC - see counselor)
NEW DEGREES

MUSIC INDUSTRY STUDIES – MUSX

Janette Funaro, Dean
Arts and Communication Division
Business and Foreign Language Building, 202

Associate in art – Music industry entrepreneurship

Students completing this program will be able to...
A. describe the principles of copyrights, publishing, licensing, and royalties as they relate to the music industry.
B. describe the entrepreneurial process including how to develop successful business ideas and turn them into new entrepreneurial ventures.
C. create, arrange, and produce recorded music projects.
D. practice team cooperation and creative thinking skills in performance of audio visual (AV) installations.

DVC’s Music Industry Entrepreneurship degree begins with a well-rounded set of music technology and industry courses to provide the technical foundation to produce and present music. Students are required to complete electives in small business, entrepreneurship, and marketing. The degree also allows each student to steer their path towards their interest area(s) in music industry studies. Graduates of the Music Industry Entrepreneurship program can move into all facets of the music and entertainment industries.

Graduates may also transfer to four-year universities, which can prepare them for successful careers in the music industry. Students who intend to transfer to a four-year baccalaureate program should consult with a counselor regarding specific major preparation requirements at the transfer institution of their choice. Students who intend to transfer are advised to select General Education Option 2 (IGETC) or Option 3 (CSU GE).

Students must complete each of the courses required for the major with a “C” grade or higher. Certain courses may satisfy both major and general education requirements; however, the units are only counted once.

required courses:  
MUSX-100 AV Essentials: Systems and Analysis .......................... 3
MUSX-172 Introduction to Electronic Music and MIDI .................... 3
MUSX-174 Introduction to Music Technology and Pro Tools ......... 3
MUSX-181 Introduction to the Music Industry ............................... 3

plus at least 3 units from:
BUS-109 Introduction to Business.............................................. 3
BUSMG-191 Small Business Management ................................. 3
BUSMG-192 Entrepreneurship and Venture Management .......... 3

plus at least 3 units from:
BUSMK-259 Digital Marketing Fundamentals ............................ 3
BUSMK-260 Social Media Marketing..................................... 3

MUSIC-121 Introduction to Music Composition .......................... 3
MUSX-101 AV Essentials: Management and Solutions ............... 3
MUSX-120 Live Sound .............................................................. 3
MUSX-124 Introduction to Music Production and Multi-Track Recording ....................................................... 3
MUSX-125 Advanced Music Production and Multi-Track Recording .................................................. 3
MUSX-173 Advanced Electronic Music ........................................ 3
MUSX-175 Advanced Pro Tools .................................................. 3
MUSX-176 Introduction to Ableton Live ..................................... 3
MUSX-177 Introduction to Reason ............................................. 3
MUSX-178 Music and Sound for Film, Games, and Digital Media .......................................................... 3
MUSX-182 Songwriting I ............................................................ 3
MUSX-183 Artist Development in the Music Industry ............... 3
MUSX-270 Advanced Digital Audio Techniques ....................... 3
MUSX-282 Songwriting II .......................................................... 3
MUSX-296 Internship in Occupational Work Experience ......... 2-4

Education in MUSX ................................................................. 2-4

total minimum required units ................................ 24

NEW CERTIFICATES

COMPUTER SCIENCE – COMSC

Charlie Shi, Interim Dean
Business, Computer Science, and Culinary Arts Division
Administration Building, 214

Certificate of accomplishment – Python programming

Students completing this program will be able to...
A. read programs written in Python.
B. write programs in Python.
C. create computer programming solutions using Python.

The Python programming language is a very flexible language and is used in database, networking, web development, data analytics, and big data applications. The Python programming certificate of accomplishment will provide students with professional-level training and enhance employability in the above-mentioned fields.

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

required courses:  
COMSC-140 Python Programming .................................................. 3
COMSC-240 Advanced Python Programming ............................. 3

total minimum required units ........................................ 6
Certificate of achievement – Python programming

Students completing this program will be able to...
A. read and analyze programs written in Python.
B. write and code programs in Python.
C. create and develop medium-size applications in Python involving databases, networking, and graphics.

The Python programming language is best known for applications in data analytics and big data processing. Python is also popular in many other software application fields, including graphics, database, network programming, game development, embedded systems, and web and internet development. Organizations running networks on private and public clouds count on Python as a general-purpose solution to fulfill the development requirement of applications. The flexible nature of the language is driving the demand for trained Python programmers.

The certificate of achievement prepares students for jobs that require professional-level Python programming skills. In addition, Python programming skills also provide a good building block as an introduction to programming languages such as JavaScript, Perl, Ruby, and other programming languages.

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

required courses:  units
COMSC-140 Python Programming ........................................3
COMSC-240 Advanced Python Programming  .......................3

plus at least 4 units from:
COMSC-110 Introduction to Programming ............................4
COMSC-275 Introduction to Web Programming using PHP and JavaScript .................................................. 4

plus at least 4 units from:
COMSC-165 Advanced Programming with C/C++ ..............4
COMSC-200 Object Oriented Programming C++ ..............4
COMSC-255 Programming with Java ..................................4
COMSC-276 Intermediate Web Programming Using PHP and MySQL .........................................................4

**total minimum required units** 14

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ENGINEERING TECHNOLOGY – ENGTC

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

Certificate of achievement – Design for manufacturing (D4m)

Students completing this program will be able to...
A. analyze markets, marketing strategy, the marketing environment, and the marketing mix, variables of product, price, promotion, and distribution.
B. work within a team of diverse industry professionals to establish and meet design criteria.
C. develop detailed technical drawings of a product.
D. determine the most efficient and responsible manufacturing method for products.
E. manufacture an object from a given drawing using machine tools.
F. prototype an object from a given technical drawing or three-dimensional CAD model.
G. design and prototype mechanical parts under the supervision of engineers.
H. use computer integrated manufacturing (CIM) and computer numerical control (CNC) software for automation of manufacturing.

Diablo Valley College’s (DVC) industrial design program addresses the workforce needs of the design and manufacturing sector with the design for manufacturing (D4m) certificate of achievement. The program courses provide current digital fabrication skills, while providing a foundation of traditional manufacturing. Students will also learn the design process and rapid prototyping techniques required by the field of industrial design as well as business marketing skills.

Graduates of the design for manufacturing (D4m) program may be employed in jobs that include production occupations, engineering occupations, assemblers and fabricators, engineering technicians, computer-controlled machine operators, rapid prototyping for product design, and within research and development (R&D) fields. Students will gain the skills necessary to create 3D CAD models, program computer numerical control (CNC) manufacturing equipment, and operate traditional machinery such as lathes, mills, drill presses, and precision measuring devices. Students completing this program will also be candidates for a broad range of manufacturing and corporate jobs requiring a combination of technical knowledge and the skills needed to collaborate between marketing, design, engineering, and manufacturing.

The design for manufacturing (D4m) certificate of achievement program shares coursework with both the machining and mechanical engineering technology and industrial design certificate programs. To earn the certificate of achievement, students must complete each of the courses required for the major with a “C” grade or higher.
required courses:  
BUSMK-256 Marketing .................................................. 3
ENGTC-119 Introduction to Technical Drawing .................. 3
ENGTC-129 Product Design I Using SolidWorks ............... 3
ENGTC-165 Machining and Manufacturing I ..................... 3
ENGTC-168 Introduction to Computer Numerical Control .. 3
IDSGN-120 Introduction to Industrial and Product Design 3
IDSGN-121 Industrial and Product Design Foundations ... 3
IDSGN-137 Digital Fabrication and Prototyping .............. 3

plus at least 2 units from:
IDSGN-105 Assembly and Fabrication Workshop ............. 2
IDSGN-107 Furniture Design Studio ............................... 2

plus at least 3 units from:
ENGTC-226 Computer Aided Drafting Design, Advanced Concepts – AutoCAD ........................................ 3
IDSGN-220 Soft Goods Product Design Studio .................. 4
IDSGN-221 Transportation Design Studio ....................... 4

total minimum required units 29

Certificate of achievement – Industrial automation and 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. measure, analyze, and troubleshoot equipment problems.
D. program the programmable logic controllers to control output devices based on sensor inputs.
E. solve series, parallel, and series-parallel AC circuits for voltage, current, impedance, and phase angle.
F. describe the quality assurance procedure that might be used to verify the part is conforming to specification.
G. demonstrate competence in principles and operation of basic hydraulic systems; use flow meters and pressure gauges to measure valves and make adjustments.
H. diagnose and troubleshoot mechanical systems.
I. use currently available basic personal protective equipment and be able to select appropriate equipment for a given environment.

DVC’s students will utilize state-of-the-art equipment needed to integrate robotic equipment into advanced production and specialty systems. Courses will introduce the basic operations of robotic equipment and autonomous systems, with an emphasis on hydraulics and pneumatics, electronics, and programmable logic controllers (PLC). Students will also learn how to practice safety within high-tech facilities as they troubleshoot and repair electromechanical systems and components. An emphasis on quality control standards and production system efficiencies is inclusive.

Graduates of this program will gain skills and knowledge in areas that include industrial hydraulics and pneumatics, electricity and electronics, machine repair, shop and field maintenance, and operational robotic programming.

To earn a certificate of achievement, students must complete each of the required courses with a “C” grade or higher.

required courses:  
ELECT-120 Direct Current Circuits .................................. 4
ELECT-130 Motors and Motor Controllers ....................... 4
ELTRN-121 Alternating Current Circuits ......................... 4
ENGTC-160 Introduction to Industrial and Manufacturing Engineering 3
ENGTC-175 Hydraulic and Pneumatic Systems and Components 3
ENGTC-176 Mechanical Systems and Components .......... 3
ENGTC-180 Applications for Industrial Robotics ......... 3
ELTRN-107 Introduction to Robotics ............................ 2

plus at least 2 units from:
CONST-110 Occupational Safety .................................... 2
ENGTC-165 Machining and Manufacturing I .................. 3

total minimum required units 32
ENGLISH – ENGL

James Noel, Dean
English and Equity Pedagogy
Business and Foreign Language Building, 204

Certificate of competency – Skills for college success

Students completing this program will be able to...
A. use reading strategies to read and comprehend college-level texts, analyzing them for the central idea and basic organizational structure.
B. analyze college-level readings and integrate the ideas meaningfully into formal writing assignments.
C. incorporate appropriate structure and organization in their own writing.
D. structure well-organized essays that have a focused thesis and developed and well-supported paragraphs with appropriate transitional elements, and which are relatively free of sentence-level errors.
E. incorporate college success techniques into their learning behaviors (e.g., utilizing campus resources, managing stress, developing note-taking and summarizing skills, reflecting on personal student-learning processes).
F. perform arithmetic operations with real numbers and fractions.
G. integrate vocabulary with mathematical notations and computations that relate to graphs.
H. develop study habits that promote success in mathematics, such as the use of reading and metacognitive strategies to improve understanding and performance.
I. solve problems and think critically.

This noncredit program is a concise and focused foundation for English and math basics, along with the “studenting skills” necessary for college success. ENGL-091NC is designed for students to build successful academic habits and strengthen their reading and writing skills in preparation for taking transfer-level courses. The MATH-003NC course option provides a review of arithmetic operations with fractions, solving linear equations, graphing, functions, and factoring. The MATH-002NC course option provides a review of arithmetic operations with fractions, decimals, and percentages, reading and interpreting graphs, and introductory statistics skills. Additionally, the program emphasizes strategies for academic success and familiarizes students with campus resources and support.

required courses: English Skills for Noncredit............... 0
and at least one of the following courses:
MATH-002NC Fundamental Math Skills for the
Statistics Pathway – Noncredit........................................ 0
MATH-003NC Fundamental Math Skills for Business and
STEM Pathways - Noncredit.......................................... 0

FILM, TELEVISION, AND ELECTRONIC MEDIA – FTVE

Janette Funaro, Dean
Arts and Communication Division
Business and Foreign Language Building, 202

Certificate of achievement – Film post-production

Students completing this program will be able to...
A. use industry-standard graphics, video and audio editing software.
B. create motion graphics projects.
C. create samples for an online portfolio.
D. qualify for entry-level employment in the film and television post-production industries.

This certificate of achievement in film post-production prepares students for a career in film, television, and media industries. Students develop skills in three of the core aspects of post-production: video editing, sound design and editing, and motion graphics. Students will participate in a collaborative team-oriented learning experience that mirrors the post-production process. The program goal is to provide relevant, industry-standard skills necessary to enter this dynamic and creative field.

Some examples where students might find employment using their post-production skills are working at a film or television post-production company as an assistant video editor, assistant sound designer or sound mixer, working at a visual effects studio, working in the video game industry, or at an advertising agency.

To earn the certificate of achievement students must complete the required courses with a minimum of grade of “C” or higher. Some courses are available in both online and traditional formats. The certificate can be completed in one year of full-time or two years of part-time study.

required courses:                  units
ARTDM-105 Introduction to Digital Imaging..............................3
ARTDM-140 Motion Graphics ....................................................3
FTVE-165 Digital Editing ......................................................3
ARTDM-166 Intermediate Digital Editing ..............................3
MUSX-178 Music and Sound for Film, Games, and
Digital Media ........................................................................3
plus at least 3 units from:
ARTDM-130 Introduction to Digital Audio................................3
MUSX-174 Introduction to Music Technology and
Pro Tools ................................................................................3
plus at least 3 units from:
ARTDM-149 Fundamentals of Digital Video ............................3
ARTDM-160 3D Modelling and Animation I ..............................3
ARTDM-165 Drawing for Digital Animation ............................3
ARTDM-180 Game Design ....................................................3
FTVE-150 Topics in Film, Television, and Electronic
Media ..................................................................................3
FTVE-160 Introduction to Film Production .............................. 3
FTVE-295 Occupational Work Experience
Education in FTVE ..............................................................2-4
FTVE-296 Internship in Occupational Work
Experience Education in FTVE ...........................................2-4

total minimum required units 21
Certificate of achievement – Film production

Students completing this program will be able to...
A. demonstrate knowledge of the basic technical aspects of digital film production.
B. create short films, taking an idea through all stages of film production.
C. use industry-standard video and audio editing software.
D. demonstrate the successful teamwork necessary to work on a crew in television, film, or other media employment.
E. build foundation knowledge in film language and visual storytelling.
F. qualify for entry-level employment in the film and television industry.
G. create film samples for an online portfolio.

This certificate of achievement in film production prepares students for a career in the film, television, and media industries. Students develop creativity and production skills and experience the film production process from pitching ideas through editing the final film. Students will participate in a collaborative, team-oriented learning experience that mirrors the film industry production process. The program goal is to provide the skills necessary to enter this dynamic and creative industry.

Some examples where students can find employment using their film production skills are working on film crews, joining a film or television production company, assisting at a talent agency, creating corporate videos, assisting the production of business training or real estate videos, and assisting in an advertising or marketing agency.

To earn the certificate of achievement students must complete the required courses with a minimum of grade of “C” or higher. Some courses are available in both online and traditional formats. The certificate can be completed in one year of full-time or two years of part-time study.

required courses: units
FTVE-140 Introduction to Film and Media Scriptwriting………………..3
FTVE-160 Introduction to Film Production………………………………3
FTVE-161 Intermediate Film Production……………………………3
FTVE-165 Digital Editing …………………………………………………3
FTVE-205 Introduction to Film and Media Arts ..........................3

plus at least 3 units from:
ARTDM-130 Introduction to Digital Audio ..............................3
MUSX-178 Music and Sound for Film, Games, and Digital Media …………3

plus at least 3 units from:
ARTDM-140 Motion Graphics..................................................3
ARTDM-180 Game Design I ..................................................3
DRAMA-122 Basic Principles of Acting .................................3
FTVE-120 Introduction to TV Studio Production…………..3
FTVE-150 Topics in Film, Television, and Electronic Media ………………0.3-4
FTVE-166 Intermediate Digital Editing ..................................3
FTVE-295 Occupational Work Experience Education in FTVE……………2-4
FTVE-296 Internship in Occupational Work Experience Education in FTVE 2-4
JRNAL-130 Multimedia Reporting..................................3

total minimum required units 21

Certificate of achievement – Arboriculture entrepreneurship

Students completing this program will be able to...
A. implement tree trimming safety procedures.
B. use field examinations to determine tree problems.
C. diagnose woody plant suitability for given sites.
D. recognize species and the characteristics of a given species.
E. construct a business plan and essential financial documents for a small business.
F. describe basic accounting and marketing knowledge to support a business.

This certificate of achievement adds business courses to the Tree Technician Certificate of Accomplishment. The additional coursework provides the business skills needed to start and run arboriculture businesses or enhance employability in local arboriculture businesses.

To earn a certificate of achievement, students must complete each course used to meet a certificate requirement with a “C” grade or higher. Required courses are available in the evening and/or on weekends.

required courses: units
HORT-110 Introduction to Horticulture and Plant Science………………….4
HORT-170 Woody Plants: Identification and Maintenance…………4
HORT-171 Pruning Laboratory………………………………………………………1
HORT-179 Arboriculture…………………………………………………………4

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

plus at least 3 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

total minimum required units 19

Certificate of achievement – Landscape design entrepreneurship

Students completing this program will be able to...
A. apply principles of planting design theory to landscape design projects.
B. prepare rendered documents for presentation.
C. prepare professional level planting plans and schedules, estimating quantity and sizes of plants required.
D. construct a business plan and essential financial documents for a small business.
E. describe basic accounting and marketing knowledge to support a business.
This certificate of achievement adds business courses to the Landscape Design Fundamentals Certificate of Accomplishment. The additional coursework provides the business skills needed to start and run landscape design businesses or to enhance employability in local landscaping businesses.

To earn a certificate of achievement, students must complete each course used to meet a certificate requirement with a “C” grade or higher. Required courses are available in the evening and/or on weekends.

**Certificate of achievement – Master grower**

**Students completing this program will be able to:**

| A. | identify, alleviate and recommend treatment for diseases and pathogens. |
| B. | describe specific environmental and cultural requirements to grow common plants. |
| C. | describe the pests and control methods for pests common to controlled environment plant production. |
| D. | identify the requirements for successful seed and vegetative propagation of cannabis. |
| E. | construct a business plan and essential financial documents for a small business. |
| F. | describe basic accounting and marketing knowledge to support a business. |

This certificate of achievement adds business courses to the Nursery Technician Certificate of Accomplishment. The additional coursework provides the business skills needed to start and run nurseries and greenhouses or to enhance employability in local nurseries and greenhouse businesses.

To earn a certificate of achievement, students must complete each course used to meet a certificate requirement with a “C” grade or higher. Required courses are available in the evening and/or on weekends.

**Certificate of achievement – Nursery and greenhouse entrepreneurship**

**Students completing this program will be able to:**

| A. | identify, alleviate and recommend treatment for diseases and pathogens. |
| B. | describe specific environmental and cultural requirements to grow common plants. |
| C. | describe the pests and control methods for pests common to controlled environment plant production. |
| D. | identify the requirements for successful seed and vegetative propagation of cannabis. |
| E. | construct a business plan and essential financial documents for a small business. |
| F. | describe basic accounting and marketing knowledge to support a business. |

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<th>Course</th>
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<th>Summer/Fall</th>
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**total minimum required units** | 19.5

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### Required courses

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<td>HORT-113</td>
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**total minimum required units** | 16
MUSIC INDUSTRY STUDIES – MUSX

Janette Funaro, Dean
Arts and Communication Division
Business and Foreign Language Building, 202

Certificate of achievement – Music industry entrepreneurship

Students completing this program will be able to...
A. describe the principles of copyrights, publishing, licensing, and royalties as they relate to the music industry.
B. describe the entrepreneurial process including how to develop successful business ideas and turn them into new entrepreneurial ventures.
C. create, arrange, and produce recorded music projects.
D. practice team cooperation and creative thinking skills in performance of audio visual (AV) installations.

DVC’s Music Industry Entrepreneurship certificate begins with a well-rounded set of music technology and industry courses to provide the technical foundation to produce and present music. Students are required to complete electives in small business, entrepreneurship, and marketing. The certificate also allows each student to steer their path towards their interest area(s) in music industry studies. Graduates of the Music Industry Entrepreneurship program can move into all facets of the music and entertainment industries.

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

required courses: units
MUSX-100 AV Essentials: Systems and Analysis ..................3
MUSX-172 Introduction to Electronic Music and MIDI ............3
MUSX-174 Introduction to Music Technology and Pro Tools ......3
MUSX-181 Introduction to the Music Industry .......................3

plus at least 3 units from:
BUS-109 Introduction to Business .....................................3
BUSMG-191 Small Business Management ........................3
BUSMG-192 Entrepreneurship and Venture Management ....3

plus at least 6 units from:
MUSX-101 AV Essentials: Management and Solutions .........3
MUSX-120 Live Sound .........................................................3
MUSX-124 Introduction to Music Production and ...
Multi-Track Recording ....................................................3
MUSX-125 Advanced Music Production and ...
Multi-Track Recording ....................................................3
MUSX-173 Advanced Electronic Music .................................3
MUSX-175 Advanced Pro Tools ............................................3
MUSX-176 Introduction to Ableton Live ...............................3
MUSX-177 Introduction to Reason .......................................3
MUSX-178 Music and Sound for Film, Games, and ...
Digital Media ..........................................................3
MUSX-182 Songwriting I .....................................................3
MUSX-183 Artist Development in the Music Industry ............3
MUSX-270 Advanced Digital Audio Techniques ....................3
MUSX-282 Songwriting II ..................................................3
MUSX-296 Internship in Occupational Work Experience ...
Education in MUSX ...................................................2-4

total minimum required units ...................... 24