



Inspiring Possibilities For  
**STUDENTS**

**Career Express Online**  
SUMMER 2015 PROGRAM CATALOG

# Superintendent's Message

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## Inspiring Possibilities



As Career Express Online embraces the complexity associated with creating an aligned, twenty-first century system to prepare students for the competitive global economy, our focus is on knowledge, skill, and innovation. Although technology investments alone cannot address the changing needs of our complex world, significant gains can be realized when technology investments are aligned with new strategies, processes, and practices.

Career Express Online is our response to the changing needs of educational delivery. Our launch of Career Express Online is intended to encourage the use of technology to complement educational pathway activities.

The new economy requires a higher skill set, specifically proficient in thinking and complex communication skills, as well as the use of the most advanced methods of innovation. Our hope is that Career Express Online will enhance existing pathways and provide expanded access to high-growth and emerging industries. The goal is to empower students to imagine their futures and possibilities. Welcome!

Sincerely,

*Stephanie Houston*

Stephanie Houston, Superintendent

### Advantages of Online Learning — Convenience and Flexibility

- **Schedule flexibility:** You can access your program at any time, from anywhere. The only things you'll need are a computer and Internet access.
- **Ease of accessibility:** Your program is available for you when you need it. You can review lectures, discussions, explanations, and comments. Furthermore, you will be a part of a growing online community, and will work with fellow students to share notes and learn together.
- **Study time:** On-campus programs are typically scheduled in a more rigid format. One of the great parts of Career Express Online is that you have the choice of how much time you spend in your program each day. Your lessons can be started when you are ready, paused if you need a break, and your notes are available whenever you need them.

### Is Career Express Online right for you?

#### Are you:

- **Self motivated?**  
You will direct your own learning and methods to fulfill your program requirements and achieve academic success.
- **An independent learner?**  
You will pace yourself through your program, relieving the stress of feeling rushed or pressured, to provide yourself enjoyment in the learning process.
- **Computer literate?**  
You do not need to have advanced computer skills, but you will need to have a working knowledge of electronic email, the Internet, and basic keyboarding skills. You will also need internet access and a valid email address.

#### Do you have:

- **Good time management skills?**  
You will need to organize and plan your own best "time to learn". There is no one best time for everyone, but the key to your success is finding your best time.
- **Effective written communication skills?**  
You will be using electronic email and discussion forums to communicate with your peers and instructors. The ability to write clearly to communicate ideas and complete assignments is essential. This method will provide you with rapid feedback, as well as a means to inform your instructor of any concerns or problems you may be experiencing.
- **A personal commitment to your success?**  
Since there are no bells that begin and end your class, you must have a strong desire to learn and achieve knowledge and skills via your online program. Making a commitment to learn in this matter is a very personal decision and requires a strong commitment to perform in order to achieve academic success.

### **What will my online program look like?**

Career Express Online programs are conducted over the Internet eliminating the need to meet in a physical classroom. Your program materials are available online through a dedicated student portal. Additionally, all activities and interaction with your classmates and teacher are done using email, discussion boards, and live virtual meetings.

### **What computer skills do I need to take an online program?**

You will need to know the following:

- How to use a word processing program, such as Microsoft Word
- How to send email
- How to use a discussion board
- How to use online video conferencing tools
- How to do basic downloads from the Internet
- How to attach files

You may also need to know, or learn:

- How to update your browser
- How to download and install special plug-ins, freeware, and demo software

### **Is an online program easier than an on-campus program?**

You can expect to succeed in an online program if you are self-motivated and a strong independent learner. Also, you should practice good time management habits and stay familiar with new technology.

### **Would I have to be online at a certain time for my program?**

No, your work will be done on your own time according to your schedule. You will have access to your program at any time, from anywhere you can access the Internet.

### **What kind of technology do I need for an online program?**

You will need an email account, an Internet connection, speakers, a microphone, a webcam, and access to a computer. Any additional computer software used will be freeware, demos, or trials. All of these are available at no additional cost to you.

### **Will there be training on how to navigate and use my student portal?**

Yes, your program begins with an orientation module that walks you through the system and program tools. Your instructor is also available to help answer any questions you may have.

### **How do I enroll?**

You can schedule an appointment with your school counselor who will explain the enrollment process and help you complete the online application forms.

### **How much does the program cost?**

All programs are available at no cost to you. However, depending on the program, you may be required to download free materials and software to your computer.

### **Can I leave a program once it has started?**

There is a grace period once your program has begun, the length of which depends on the semester you are currently in. For the Fall and Spring semesters the grace period is 10 days. For the Summer semester the grace period is 2 days. If you don't log in or show activity in your program, you may be removed. You may also speak to your counselor if you feel that this isn't the best fit for you.

# Program List

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## Fuel Education Programs

<a href="#">3D Modeling</a>
<a href="#">Career Planning</a>
<a href="#">Computer Literacy</a>
<a href="#">Criminology</a>
<a href="#">Fundamentals of Wellness</a>
<a href="#">Game Design</a>
<a href="#">Life Skills</a>
<a href="#">VB.NET Programming</a>
<a href="#">Veterinary Medicine</a>
<a href="#">Web Design</a>

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## Demo Account

[fueled.blackboard.com](http://fueled.blackboard.com)  
Username: fuelcontent085s  
Password: Golfs085

## Odysseyware Programs

<a href="#">Introduction to Careers in Health Sciences</a>
<a href="#">Nursing: Unlimited Possibilities and Unlimited Potential</a>
<a href="#">Physicians, Pharmacists, Dentists, Veterinarians, and Other Doctors</a>
<a href="#">Public Health: Discovering the Big Picture in Health Care</a>
<a href="#">Introduction to Law, Public Safety, Corrections, and Security</a>
<a href="#">Corrections: Policies and Procedures</a>
<a href="#">Security and Protective Services</a>
<a href="#">Fire and Emergency Services</a>
<a href="#">Law Enforcement Field Services</a>
<a href="#">Legal Services</a>
<a href="#">Principles of Technology and Engineering</a>
<a href="#">Engineering and Design</a>
<a href="#">Engineering and Innovation</a>
<a href="#">Introduction to STEM</a>
<a href="#">Science and Mathematics in the Real World</a>
<a href="#">STEM and Problem Solving</a>
<a href="#">Fundamentals of Programming and Software Development</a>
<a href="#">Animal Systems</a>
<a href="#">Counseling and Mental Health Services</a>
<a href="#">Principles of Business and Finance</a>

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# Program Catalog

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## 3D Modeling

1 Semester

This program introduces you to 3D modeling tools and concepts. Using Blender, the popular open-source 3D modeling package, you will learn the basics of creating shapes, adding textures and lighting, and rendering. By the end of the program, you will produce a series of increasingly sophisticated projects for your 3D portfolio. You do not need to have prior experience in 3D game design or digital media authoring tools to take this program.

The following software is required for this program: Blender (freeware).

## Career Planning

1 Semester

This program will use an informative interactive process to explore your career and life options. You will begin with a thorough examination of your own interests, aptitudes, achievements, and personality style. Program material will help you match job market information, interview techniques, training requirements, and educational paths to potential careers that suit your strengths and personal priorities. By the end of the program, you will have the ability to identify and describe your personal interests, aptitudes, and lifestyle goals, locate and evaluate information about different careers, identify the skills and knowledge needed for careers your interested in and learn how to obtain them, and create an entrepreneurial business plan.

## Computer Literacy

1 Semester

In this program, you will become familiar with the basic principles and fundamentals of a personal computer, including the internal hardware, operating system, and software applications. You will practice using key applications such as word processing, spreadsheet, and presentation software, and examine social and ethical issues surrounding the Internet, information, and security. You will also focus on learning and using applications, gathering and analyzing data, and using the right tools and methods to collect and present data.

The following software is required for this program: Microsoft Office 2010 or Open Office 3.4 (freeware).

## Criminology

1 Semester

This program introduces you to the field of criminology, the study of crime. In the modern world, many citizens share a concern about criminal behaviors and intent. You will look at possible explanations for crime from psychological, biological, and sociological perspectives, explore the categories and social consequences of crime, and investigate how the criminal justice system handles criminals and their misdeeds. Program material will also explore some key questions, such as: Why do some individuals commit crimes while others do not? What aspects of culture and society promote crime? Why are different punishments given for the same crime? What factors, from arrest to punishment, help shape the criminal case process?

# Program Catalog

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## Fundamentals of Wellness

1 Semester

This program will help you develop the knowledge and skills you need to make healthy decisions that allow you to stay active, safe, and informed. You will learn about the components of a healthy lifestyle and learn strategies for making healthy choices. Program material will introduce you to the concepts of mental health, emotional health, social health, consumer health, and physical health. You will be presented with the opportunity to apply your value systems to decisions concerning your own health. You will also learn to develop communication skills that allow you to demonstrate healthy choices with respect for self, family, and others.

## Game Design

1 Semester

In this program, you will learn the basic skills necessary for game design. Program materials highlight the various games in the industry and analyze their approach in terms of design and development. You will explore both the artistic and technical processes of developing game elements such as story, levels, sound, and user interfaces. You will also research a variety of video game topics including history, player elements, genres, elements of game play, setting platform, game generations, and player modes. By the end of the program, you will merge all of these elements into a functional prototype to demonstrate your understanding of the game design process.

The following software is required for this program: Multimedia Fusion 2 (trial), Blender (freeware), TrackMania Nations (freeware), and Multimedia Fusion Developer (demo).

## Life Skills

1 Semester

This program is designed to increase your knowledge of and ability in using the skills necessary for everyday living. You will focus on how to define personal values, plan for and set goals, and solve problems. Program material focuses on how you can deal with media and peer pressure, communication and relationships, working with others, avoiding and/or resolving conflict, decision making, wellness and personal safety, aspects of good citizenship, environmental awareness, and how you can contribute to your own community.

## VB.NET Programming

1 Semester

In this program you will learn basic programming and the essential concepts of VisualBasic.NET (VB.NET). As an introduction to VB.NET, you will be taught the basic uses of the programming language, its similarities to the English language and others, its architecture, program flow, and its flexibility as a programming language. You will also learn the processes involved in software development and object-oriented programming. By the end of the program, you will be provided with an introduction to programming, and be prepared to take other programming programs. The following software is required for this program: Visual Studio 2008 Express Edition (free download).

# Program Catalog

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## Veterinary Medicine

1 Semester

In this program, you will take a look at the animals that live in our homes, on our farms, and in zoos and wildlife sanctuaries, and examine some of the common diseases and treatments for domestic animals. You will also learn about toxins, parasites, and infectious diseases that affect not only the animals around us, but at times, humans as well. By the end of the program, you will be provided with an overview of veterinary medicine and science, and how the prevention and treatment of diseases and other health issues are studied and applied.

## Web Design

1 Semester

This program provide you with a comprehensive introduction to the essentials of web design, from the planning page layouts to publishing a complete site on the Internet. You will learn how to use HTML to design your own web pages. You will also cover the basic HTML tags for formatting text, as well as more advanced tags. By the end of the program, through real-world design scenarios and hands-on projects, you will create compelling, usable websites using the latest suite of free tools.

The following software is required for this program: NVu software package (open source).

## Introduction to Careers in the Health Sciences

1 Semester

In this program, you will build a foundation for further study in the field of health science. You will learn about various health care careers, how to help create a diverse workforce of lifelong learners, and how to communicate and work with a team in the health care environment. Program material will introduce you to anatomy, physiology, and disease development, along with the science and technology of human health. By the end of the program, you will be able to discuss the potential career choices available and have an understanding of the basic concepts of privacy, ethics, and safety in health care.

## Nursing: Unlimited Possibilities and Unlimited Potential

1 Semester

This program will provide you with the opportunity to compare and contrast the various academic and clinical training pathways to an entry-level position in nursing and explore the growing number of opportunities for professional advancement given the proper preparation and experience. You will have the opportunity to learn about the expanding scope of profession practice for registered nurses. By the end of the program you will be able to further focus your ambition and commitment to nursing services by better defining your available options.

# Program Catalog

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## Physicians, Pharmacists, Dentists, Veterinarians, and Other Doctors

1 Semester

In this program, you will focus on preparation for physician-level careers, including dental, veterinary, pharmaceutical, Physician Assistant, and alternative medicine systems. You will be introduced to the topics of academic ability and diversity with an emphasis on social and cultural skills in medicine. Program material will explore individual career paths in length to learn about the various roles, responsibilities, settings, education needs, and patient contact involved. At the end of the program, you will work to prepare a personal plan for a professional career path.



## Public Health: Discovering the Big Picture in Health Care

1 Semester

In this program you will discuss the multiple definitions of public health and the ways that these definitions are put into practice. Program material will include the definition of public health, history of public health, the core disciplines of behavior science and emergency preparedness, epidemiology, biostatistics, environmental and occupation health issues, global health, and the future of public health. You will also learn about the contributions of public health to society and how they have shaped our modern world.



## Introduction to Law, Public Safety, Corrections, and Security

1 Semester

This program will teach you about the many careers that exist within the fields of law, law enforcement, public safety, corrections, and security. You will learn how to analyze and interpret the differences between the public sector criminal justice system and private security, understand the various career paths available, recognize and apply the different laws and regulations affecting the field, and apply analytical methods to understand the process of gathering and utilizing intelligence in crime prevention and providing security services. You will also focus on the relationships between professionals in these fields and how collaborations between professionals in these careers help to create a safer, more stable society.



## Corrections: Policies and Procedures

1 Semester

In this program you will be given an in-depth look at what a variety of careers the growing field of corrections encompasses and requires. Corrections is one of the three branches of the Criminal Justice System (CJS) in the United States. Corrections facilities and programs are run by a complex system of policies and procedures, which uphold local, state, and federal laws. This program will provide you with knowledge of correctional facilities and programs for offenders, legal uses of force, computer forensic investigations, constitutional rights of offenders, and the powers of agencies responsible for the investigation and enforcement of applicable federal, state, and local laws and regulations. The following software is required for this program: Microsoft Office 2010 or Open Office 3.4 (freeware).

# Program Catalog

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## Security and Protective Services

1 Semester

This program will provide you with an overview of the security and protective services industry. Security is critical for the safety and stability of life in the United States, and this industry provides the strategic, managerial, and legal knowledge and skills necessary to protect property and people. This program will cover the regulations, methodologies, and practices of the industry, the process of utilizing intelligence in crime prevention and security, the evolution of the security enterprise in the United States, and methods to gather intelligence and information for sustainable security practices.



## Fire and Emergency Services

1 Semester

In this program you will be provided with the basic structure of the emergency and fire-managements service organizations as well as the rules and guidelines that govern pre-employment education requirements. Program material will cover commonly used vehicles, equipment, and emergency-mitigations strategies, the personnel, budget, and labor-management challenges in the organization, common geographical areas where fire apparatus are located, required steps in the command sequence, and what the National Incident Management System (NIMS) is and how it is used in emergency incidents. You will also practice and analyze emergency scenarios to discuss appropriate strategic concepts to prepare an action plan.



## Law Enforcement Field Services

1 Semester

This program will introduce you to the field of law enforcement and local, county, state, and federal laws that law enforcement personnel are sworn to uphold. You will gain an understanding of the career options available in this field and the skills, education, and background experience needed to succeed. You will learn about the evolution of the role of law enforcement, key changes affecting law enforcement following the September 11, 2001 terrorist attack, interaction between local, county, state, and federal agencies, types of crimes that are commonly committed, evidence collection techniques, and technological advances that law enforcement personnel use to investigate them.



## Legal Services

1 Semester

In this program you will learn about the systems of laws in the United States and the practice areas and career options in the field. Program material will cover the basics of the U.S. legal system, historical events that impacted the formation of the current legal system, the Bill of Rights, the impact of Supreme Court decisions, and roles of court personnel. You will also learn about criminal and civil cases, constitutional rights, and legal safeguards. By the end of the program, you will learn about legal education and careers in law for attorneys and non-attorneys with an interest in the field.

# Program Catalog

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NEW

## Principles of Technology & Engineering

1 Semester

This program will introduce you to the field of engineering and the types of technology that can result from the engineering design process. During this program, you will learn how to be a successful problem solver. You will become familiar with the steps in the invention process and will investigate the ways in which engineers take an idea from an initial concept to a working technology. You will learn about the relationship between engineering, science, and technology, how scientific knowledge is applied to create technology that benefits society, and how design modification can be made based on an analysis of the underlying principles from physics, chemistry, biology, and the earth sciences.

NEW

## Engineering and Design

1 Semester

This program will help you learn how to innovate and design new products and improve existing products by building real world problem-solving and critical thinking skills. You will be introduced to the engineering design process to build new products and to the reverse engineering process, which enables engineers to adjust any existing product. This program will teach you how fluid power is used by engineers to make difficult maneuvers easier, how to identify how engineering and design have a direct impact on the sustainability of our environment, and how to incorporate the engineering design process, environmental life cycle, and green engineering principles to create a decision matrix to learn how to solve environmental issues.

NEW

## Engineering and Innovation

1 Semester

In this program you will gain an understanding of the field of engineering and an introduction to the concepts of invention and innovation, as well as some of the skills and tools necessary to invent and innovate. This program will cover the scope and nature of the field of engineering, the history of invention and innovation and how those activities play a role in the advancement of human society, and patents, regulations, and ethical professional standards that apply in the field of engineering and invention. By the end of the program you will understand problem solving and innovation specifically in the fields of biomedicine and the environment, and career options and resources in interest areas.

NEW

## Introduction to Science, Technology, Engineering, and Mathematics (STEM)

1 Semester

This program will introduce you to the four areas of STEM through an interdisciplinary approach that will increase awareness, build knowledge, develop problem solving skills, and potentially awaken an interest in pursuing a career in STEM. You will be introduced to the history, fundamental principles, applications, processes, and concepts of STEM, along with several computer applications used to analyze and present technical or scientific information. By the end of the program, you will be challenged to use a selection of problem-solving strategies to solve a wide variety of unique problems representative of the kinds of strategies frequently used in these disciplines.

# Program Catalog

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NEW

## Science and Mathematics in the Real World

1 Semester

In this program you will focus on how to apply science and mathematics concepts to the development of plans, processes, and projects that address real world problems, including sustainability and "green" technologies. Program material will include basic scientific, mathematical, and technical skills that are necessary for success in the STEM field, global issues such as environmental change and global poverty, and sustainable, holistic solution to global challenges. After completing this program, you will understand the STEM fields, the contributions made by professionals in these careers, and you will be prepared to begin to develop the specialized skill sets that will launch a successful STEM career.

NEW

## STEM and Problem Solving

1 Semester

This program will outline how to apply the concepts and principles of scientific inquiry, encouraging the use of problem-solving and critical-thinking skills to produce viable solutions to problems. You will learn the scientific method, how to use analytical tools and techniques, how to construct tests and evaluate data, and how to review and understand statistical information. Advanced problem-solving skills are necessary in all science, technology, engineering, and math disciplines and career paths. This program will stress analytic skills to properly format problem statements, the use of quantitative and qualitative approaches to construct tests, and an introduction to reviewing and interpreting statistical information.

The following software is required for this program: Microsoft Office 2010 or Open Office 3.4 (freeware).

NEW

## Fundamentals of Programming and Software Development

1 Semester

In this program you will be provided with an understanding of basic software development concepts and practice, issues affecting the software industry, careers within the software industry, and the skills necessary to perform well in these occupations. Program material includes core concepts in programming using Java, including writing and debugging code, proper syntax, flow of control, order of operations, comparison operators, and program logic tools and models. You will also learn about the Software Development Life Cycle and the different variations used to create software, different program languages and paradigms, and the importance of usability and user-centered design processes. At the end of the program, you will have the opportunity to explore and state opinions on key issues and trends impacting the software industry, and learn about the experience of working in the industry.

The following software is required for this program: Microsoft Office 2010 or Open Office 3.4 (freeware).

NEW

## Animal Systems

1 Semester

This program will provide you with information on livestock-management practices, animal husbandry, physiological systems, the latest scientific trends, and innovations in food production. You will learn about changes in practices, regulation, and legislation for animal welfare as new research provides solutions to medical, ethical, and practical concerns. Program topics include advancement in technology and research, animal agriculture, animal welfare versus animal rights, animal-performance data, and the environmental impact of animal management and production systems.

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## Counseling and Mental Health Services 1 Semester

In this program you will be introduced and exposed to some topic, issues, and populations that are related to the counseling and mental health field. In this program you will explore the topics of addiction, dual diagnosis disorders, vulnerable children, different vulnerable populations, and mental health issues in the criminal justice system. You will also be introduced to various careers in the mental health field and learn about their roles, responsibilities, and duties including psychiatrists, psychologists, school counselors, social workers, dual diagnosis disorder counselors, recovery coaches, correctional counselors, crime victim advocates, and recreational therapists. At the end of the program you will have the opportunity to apply your knowledge in practical scenarios.

The following software is required for this program: Microsoft Office 2010 or Open Office 3.4 (freeware).

## Principles of Business and Finance 1 Semester

This program will introduce you to the fundamental structure of the American economy, the complexities of the global economy, and the principle, practices, and strategies associated with starting, managing, or simply working for a business. Program lessons will include marketing, writing formal business correspondence, basic structures and legal definitions of business, and the operations and importance of financial institutions. You will perform research, conduct interviews, and write papers designed to help expand your understanding of the American business environment. By the end of the program, you will have completed a semester long project that uses your learning, imagination, and individual career motivation, along with the course material, to explore your role in the business world.

The following software is required for this program: Microsoft Office 2010 or Open Office 3.4 (freeware).



1214 Indiana Court, Redlands, CA 92374  
P.O. Box 8640, Redlands, CA 92375  
Phone: (909) 793-3115 Fax: (909) 793-6901  
[www.cryrop.org](http://www.cryrop.org)

