

BIOTECH ACADEMY



**Be In Biotech...
Be In Demand!**

Help detect and treat new diseases through drugs and vaccines. Apply science, the DNA of living things, and cell fusion to agriculture, medicine, and industry.

CAREERS IN BIOTECH

Chemist
Biologist
Professor
Physician
Researcher
Microbiologist
Statistician
Pharmacist
Patent Lawyer

The mission of the Biotechnology Academy is to provide students with industry-level laboratory and technical skills that align with the evolving needs of the biotechnology industry and postsecondary education. Our vision is that all students graduating from the Academy will be leaders in the community, excellent citizens, successful members of the workforce, and literate scientists of the future.

Biotech Industry Facts

California has always been considered the birthplace of technology. It is considered a major force in the industry and home to 3 out of 4 of the largest biotech companies in the nation. California is also responsible for 40-55% of the biotech presence in the U.S. Here are some important facts:

- Biotech is a \$30 billion a year industry
- Biotech has produced over 160 drugs and vaccines
- Biotech targets treatment for more than 200 diseases including various cancers, diabetes, AIDS and arthritis
- Biotech is responsible for hundreds of medical diagnostic tests and products
- DNA fingerprinting is a biotech process that has dramatically improved criminal investigation and forensic medicine



Vallejo High School Academy Program

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9	English 10	English 11	English 12
Algebra 1	Geometry	Algebra 2	Elective
Biology	Biotechnology 1	Biotechnology 2	Chemistry for Biotechnology
World Language	World History	U.S. History	Government/Economics
PE	PE	Elective	Medical Science
Elective	World Language	World Language	Elective

ACADEMY HIGHLIGHTS

Cross-curricular major projects

Quarterly field trips

Guest speakers

e-Mentorship for 11th graders

Summer internships

Resume writing and mock interview

Personal web page design

Biotechnology—Related Jobs

- Healthcare (Physician, Nurse)
- Research (Biotech industries, universities)
- Teaching
- Patent Law
- Sales and Marketing
- Government Regulatory Affairs
- Technical Writing

Academy Affiliation and Funding



FOR INFORMATION

Academy Lead

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Vallejo High School

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VALLEJO CITY

UNIFIED SCHOOL DISTRICT

www.vallejo.k12.ca.us

HEALTH & FITNESS ACADEMY



Help People Get Fit

MISSION

Learn about the Health and Fitness industry through hands-on experience. The greatest wealth is health!

The Health and Fitness Academy engages students through integrating health and fitness topics into the core curriculum requirements of high school.

We provide health industry related experiences, both inside and outside the classroom, to give students applications for learning and a context from which to base their education and career decisions.

The Health and Fitness Academy teaches students how to be effective thinkers and learners. As a result, students become ethical and responsible contributors to society.

PROJECT-BASED LEARNING

Students are assigned projects that give them the opportunity to learn about the Health and Fitness Industry through hands-on experience.

FIELDWORK

Students work with the VHS Sports Program and industry partners to complete 20 hours of field experience by their 12th grade year.

CAREERS IN HEALTH & FITNESS

Physician
Nurse
Dietician
Sports Trainer
Paramedic
Physical Therapist



WALL-TO-WALL ACADEMIES

Vallejo High School Academy Program

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9	English 10	English 11	English 12
Algebra 1	Geometry	Algebra 2	Health & Fitness Seminar
Biology	Chemistry	Health & Fitness 2	Government / Econ
PE 9	Modern World History	US History	Elective
World Language	Intro to Health & Fitness	Elective	Elective
Elective	World Language	Elective	Elective

OUR PARTNERS

Thank you partners
for providing:

- Training
- Job Opportunities
- Mentorships
- Workshops
- Field Trips
- Internships

Careers in Health & Fitness



Entry Level

- Certified Nursing Assistant
- Home Health Companion
- Sports Medicine Aide

Technical Level

- Dental Hygienist
- Massage Therapist
- Nurse (LVN, LPN, CNA)
- Paramedic/EMT
- Personal Trainer
- Sports Trainer

Professional Level

- Chiropractor
- Dietician
- Health/PE Instructor
- Hospital Administrator
- Occupational Therapist
- Physician
- Physician Assistant
- Registered Nurse

For Information

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AFFILIATED COLLEGES & UNIVERSITIES



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HOSPITALITY ACADEMY



JOIN THE WORLD'S LARGEST INDUSTRY!

Do you have a passion for people?

Learn hospitality, tourism and the recreation business through hands-on experiences, field trips, and internships.

CAREERS IN HOSPITALITY

Travel and Tourism

Event Planning and
Catering

Hotel or Marketing
Management

Hospitality is the world's largest industry. In the United States, approximately 7.7 million Americans work in the travel industry. This industry generates \$740 billion in annual spending and **\$84.1 billion is spent in California alone!**

Academy students are equipped with the basic skills necessary to pursue a college education, get a job, and make sound financial decisions. We work with hospitality and business partners to create an engaging and relevant learning experience for our students.

In the hospitality academy, students learn by doing. Our hands-on projects provide practical experience. You will gain valuable job skills for any career through our:

- Hospitality projects
- Field trips
- Internships
- Scholarships

**“ If you can
dream it,
you can do it. ”**

—Walt Disney



Vallejo High School Academy Program

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9	English 10	English 11	English 12
Algebra 1	Geometry	Algebra 2	Government/Econ
Biology 1	World History	Hospitality Management	Virtual Enterprise
World Language	Chemistry	US History	Elective
PE	Intro to Hospitality	PE	Elective
Elective	World Language	Elective	Elective

Business and Community Partners

City of Vallejo
 Corpuz Event Services
 Courtyard Marriott, Vallejo
 Event Solvers
 Green Tech Power Group
 Holiday Inn, Sacramento
 L&L Hawaiian BBQ Restaurant
 Little Wing Connections
 Mad Hatter Festival Committee
 Napa Valley College
 Oakland Athletics
 Rebuilding Together, Solano County
 Six Flags Discovery Kingdom
 Solano Community College
 U.S. Forest Service
 Vallejo Convention & Visitors Bureau
 Vallejo Times-Herald
 The Westin Verasa Hotel, Napa
 Youth Partnership

Course Topics

- Hospitality Industry
- Travel and Tourism
- Transportation
- Professional Event Planning
- Event Evaluation
- Business Operations & Administration
- Personal Finance
- Financial Institutions
- Financial Decisions
- Entrepreneurship
- Character and Ethics
- Career Readiness
- Career Opportunities

Hospitality Projects

- Practice interviewing in a professional environment
- Design a restaurant
- Participate in the Financial Literacy Expo
- Plan and host an event
- Create a Personal Finance Portfolio
- Develop a business plan
- Create a virtual business



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VISUAL & PERFORMING ARTS ACADEMY



EXPRESS YOURSELF!

Apply your talent in Visual Arts to advertising, graphic design, fashion design or interior design. Enjoy drama, music, and dance in Performing Arts.

The Vallejo High School Visual and Performing Arts Academy supports the development of the arts in students' lives. Academy students explore visual and performing arts as they develop skills in leadership, collaboration, self-expression, and communication.

Our academy prepares students for higher education and careers in commercial and fine arts as well as the entertainment industry. We consider ourselves a culture-changing entity as we create and promote effective communication and inspiring art.

Students in the Visual and Performing Arts Academy understand the range of media options for reaching a target audience from graphic to text, from still to motion, and from print to electronic. They learn to "brand" their efforts and track audience response.

Students have the opportunity to experience, explore, create and design projects that showcase their talents, hopes and dreams.

CAREER OPTIONS

- Advertising
- Graphic Design
- Fashion & Interior Design
- Film, Television and Theater Actor
- Dance Performer or Choreographer
- Music Performer or Composer
- Film and Theater Director



Vallejo High School Academy Program

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9	English 10	English 11	English 12
Algebra 1	Geometry	Algebra 2	Government/ Economics
Biology	Chemistry	U.S. History	Media Production & Design 2
World Language	World History	Media Production & Design	Elective
PE	Art 1/ Drama 1/ Music Appreciation	PE	Elective
Elective	World Language	Elective	Elective

In partnership with community and industry, we provide

work-based experiences:

- Field-based projects
- Compensated Internships
- Mentorships

We have a strong foundational program that builds ties to business and higher education. These connections help us address needs in our community and prepare students with the 21st century skills they need for 2020 jobs.

Visual Arts Careers

Fine Artist

- Painter
- Sculptor
- Photographer
- Muralist
- Video/Media Artist

Commercial Artist

- Illustrator
- Graphic Designer
- Photographer

Gallery/Museum/Display

- Director
- Exhibition Coordinator
- Installer

Environmental Designer

Fashion Designer

Marketing Expert

Performing Arts Careers

Under the Lights

- Actor
- Musician
- Dancer
- Poet
- Singer
- Radio/Television Broadcaster
- Social Media Expert

Behind the Scenes

- Screen Writer
- Sound Engineer
- Cameraman
- Director/Producer
- Choreographer
- Makeup Artist
- Video/Audio Producer
- Scene Designer

For Information

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BIOMEDICAL ACADEMY



Help Prevent, Diagnose and Treat Disease

Explore the concepts of human medicine, such as genetics, microbiology, and public health with real professionals. Work as a team to design innovative solutions to health challenges.

Imagine the opportunity to propel yourself forward with the help of a supporting team. The Biomed Academy is like a family, giving students a chance to work together on exciting activities such as dissecting a heart. Students can earn college credit as they are introduced to physiology, genetics, microbiology, and public health. Investigate and find solutions to health challenges of the 21st century.

BIOMEDICAL CAREERS

- Registered Nurse
- Biomedical Engineer
- Forensic Pathologist
- Medical Scientist
- Cardiologist
- Pharmacist
- Molecular Biologist



WALL-TO-WALL ACADEMIES

Jesse Bethel High School
Academy Program
Principal: Linda Kingston

Career Numbers

Average Income
of a Nutritionist

\$55,460

Top

10

Biomedical
Engineers Rank
in Best US Jobs

\$53

Pharmacists
Average
Hourly Pay

Growth Rate
in Nursing

26%

14
MILLION

Jobs in
Healthcare

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9 Algebra 1 Biology World Language PE Elective	Principles of Biomedical Science World History English 10 Geometry Chemistry World Language	Human Body Systems US History English 11 Algebra II Physics/Elective Elective/PE	Medical Interventions Biomedical Senior Seminar Government/Economics English 12 Math or Elective Elective

Enter a top University or Career Field

The academy meets UC/CSU requirements. College credits are available.

Core Courses

Principles of Biomedical Science – Explore health conditions and treatments; investigate a cause of death

Human Body Systems – Design experiments to examine body systems: identity, power, movement, protection, balance

Medical Interventions – Study how to prevent, diagnose, and treat diseases; follow the life and health of a model family

Biomedical Senior Seminar – Design innovative solutions to current health challenges with professional advisors

For Information Contact

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College and University Partners



Our Partners Provide

Training

Job Opportunities

Mentorships

Workshops

Field Trips

Internships



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GREEN ACADEMY



Change the World...

Step outside the classroom and explore the outdoors. Make our world a better place for people, plants, and animals. Our environment needs you!

Imagine a program in which you can transform your environment through ecoprojects, gardens and green technology. Students in the Green Academy gain experience with environmental professionals.

Our exciting efforts today lead to a positive effect the future environment. Prepare yourself for a top university or a leading-edge career in the green industry.

GREEN CAREERS

Environmental Scientist

Recycling Coordinator

Civil or Industrial
Engineer

Park Ranger

Teacher

Green Industry Statistics

3.1
million

Green jobs
nationwide

1

Bay Area's rank
in green career
creation

75%

...of businesses
use green tech
practices

\$130
billion

Projected green
building market in 2015

\$21

Average hourly wage
of green tech jobs

\$103,780

Average salary of
green operations
managers



WALL-TO-WALL ACADEMIES

Jesse Bethel High School
Academy Program

Principal: Lindo Kingston

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9	English 10	English 11	English 12
Math	Math	Math	Government/Economics
Biology	World History	US History	Environmental Studies
World Language	Environmental Analysis Through Chemistry	Environmental Science	Elective
PE	World Language	PE	Elective
Elective	Elective	Elective	Elective

Colleges and Universities

The Green Academy meets the entrance requirements for UC/CSU.

Academic Partners



Green Build Energy Group
Providing Sustainable Solutions



Our Partners

Our business and community partners provide us valuable work experience in the Green industry:

- Workshops
- Field trips
- Training
- Internships
- Mentorships

For Information Contact

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INTERNATIONAL FINANCE ACADEMY



Embrace Our Global Economy

- Do you see the world as interconnected?
- Do you want to run your own business and travel?
- Would you like to work in an industry that spans the globe?

CAREERS IN FINANCE

International Finance

Entrepreneurship

Market Research

Accounting and Economics

Navy Logistics

We use the National Academy Foundation model to connect students with the world of financial services, the military and public service. The International Finance Academy provides you a supportive environment that includes a team of peers, teachers, and professionals who are committed to your success.

CAREER NUMBERS



Financial Managers' Yearly Income



US GDP Produced by Small Businesses



Average Hourly Pay in Financial Services



Revenue of Businesses Owned by Women



Financial Investment Employment Increase by 2020



Jesse Bethel High School
Academy Program

Principal: Linda Kingston

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9 Algebra 1 Biology PE World Language Elective	English 10 Geometry Chemistry World History Business in a Global Economy World Language	English 11 Algebra 2 US History Business Fundamentals PE Elective	English 12 Ethics and Entrepreneurship Math Science 12 Social Science 12 PE Culinary Arts

Industry partners offer work-based learning opportunities:

Virtual Enterprises

Resume Writing Workshops

Compensated Internships

Job Shadowing

Mock Interviews

Career Fairs



Enter a Top University or Career Field

The academy meets UC/CSU requirements.

Areas of Study

The Academy prepares young minds to pursue pathways to success whether they continue with international finance or a related career field. Our curriculum covers:

- Entrepreneurship
- Banking and credit
- Financial planning
- International finance
- Securities
- Insurance
- Accounting
- Economics
- Logistics



For Information

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MULTIMEDIA ACADEMY



ANIMATE YOUR CAREER IN MULTIMEDIA

Develop your skills and gain experience in digital arts including graphic design, video production, photography and animation.

CAREERS IN MULTIMEDIA

Graphic Production
Artist

Web Designer

Animator

Digital Video
Specialist

Interactive /
Technical Writer



Jesse Bethel High School
Academy Program
Principal: Linda Kingston

The Multimedia Academy is a program of study that develops skills and provides experiences in digital arts including graphic design, video production, photography and animation with an emphasis on career and college readiness. Courses in the Academy are aligned with UC/CSU “a-g” entrance requirements. Students also have opportunities to earn industry certification, college credit, internships, awards and other recognition through this program.

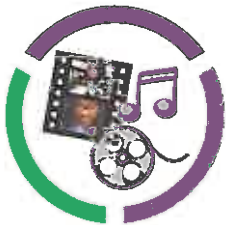
A multimedia specialist may use a variety of skills, including design theory, page layout, interactivity, color correction, animation, capturing and editing video, compression and presentation. The multimedia industry thrives on real-world experience. Project management, teamwork, and content delivery are important skills you will learn for your future career.

Students immersed in the field discover the value of ongoing skill development.

You'll never want to stop learning!

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9	English 10	English 11	English 12
Algebra 1	Geometry	Algebra 2	Government/Economics
Biology	Chemistry	U.S. History	Multimedia 3
World Language	World History	Multimedia 2	Elective
PE	Multimedia 1	PE	Elective
Elective	World Language	Elective	Elective



Partnerships in the community are established to give our students real commercial experience in the field.

Career Pathways

The Multimedia Academy is a career pathway for students who are interested in pursuing the exciting careers available in the digital arts. We prepare students for their choice of employment upon completion or entry into secondary schools that emphasize multimedia.

Careers in graphics and multimedia allow individuals to balance their creative side with their skills in technology. Students in the Multimedia Academy will further develop skills in math, hand-eye coordination, communication and collaboration.

Areas of Study

Learn skills in the following design areas:

- Graphic Design
- Motion Graphics
- Web Design
- Title Design
- Animation
- Video Editing
- Branding
- Concept Design

Entry-Level Positions

Start your career in the following fields:

- Graphic & Web Design
- Motion Graphics
- 2D & 3D Animation
- Illustration
- Film Title Design
- Concept Design

For Information Contact

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LAW AND JUSTICE ACADEMY



We See Beyond Conflicts

The law offers many attractions including a chance to change the world—sometimes on a large scale and sometimes on a smaller, local or individual scale.

The Law and Justice Academy students will develop skills in law and the legal professions, speech and written communication, critical thinking, problem solving and career awareness. This program prepares students for careers in law and the legal professions through rigorous project-based and problem -based curriculum. The Academy also provides many work-based experiences with industry professionals.

If you share the following traits of successful lawyers and legal practitioners, the Law and Justice Academy is for you!

CAREERS IN LAW

Lawyer
Mediator
Litigation Support
Trial or Jury Consultant
Court Reporter
Paralegal
Police Officer
Firefighter
Criminal Investigator

- A love of learning
- Attention to details
- Respect for rules
- Strong analytical abilities
- Achievement orientation
- Competitive
- Patient and persistent
- Realistic



WALL-TO-WALL ACADEMIES

Jesse Bethel High School
Academy Program
Principal: Linda Kingston

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9	English 10	English 11	English 12
Algebra 1	Geometry	Algebra 2	Government/Economics
Biology	Chemistry	US History	Practical Law
World Language	World History	Investigating Law and Justice	Elective
PE	Introduction to Law and Speech Communication	PE	Elective
Elective	World Language	Elective	Elective

Community advisors and partners offer work-based learning opportunities:

- Compensated Internships
- Mentorships
- Field-based projects

Practical Education

Knowledge and skills in the field of law-related career exploration are acquired within a sequential program. The academy course progression integrates classroom, field-based and problem/ project-constructed instruction. Pathway instruction prepares students for technical training, postsecondary education and entry into variety of law-related careers.

For Information Contact

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Academy Affiliations

- California Partnership Academy
- National Academy Foundation
- Linked Learning
- State Bar of California



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CULINARY ACADEMY



A Passion For Food

If you love to cook or bake you can blend your passion for food and business instincts into a career. Get practical training from experienced instructors. Learn to eat healthy and eat better for life!

CULINARY CAREERS

Nutritionist Consultant

Food and Beverage
Manager

Culinary Manager

Pastry, Private,
Executive Chef

Caterer

The Life Skills Culinary Arts Academy prepares students for careers in the culinary arts. All aspects of the culinary industry are explored in practice, project-based courses. Work experiences allow students to become familiar with their future options.

The Culinary Academy is a small learning community built around equipping students with the basic skills necessary to pursue a college education, get a job, and make sound financial decisions. We work with community and business partners to provide valuable and engaging learning experiences for our students.



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“ This is my invariable advice to people: learn how to cook—try new recipes, learn from your mistakes, be fearless and above all have fun! ”

—Julia Child

SAMPLE COURSE PROGRESSION

9 th	10 th	11 th	12 th
English 9	English 10	English 11	English 12
Math	Math	Math	Math
Science 9	Science 10	Science 11	Science 12
Social Science 9	Social Science 10	Social Science 11	Social Science 12
PE	PE	PE	PE
Culinary Arts	Culinary Arts	Culinary Arts	Culinary Arts

Community advisors and partners offer work-based learning opportunities:

- Compensated Internships
- Mentorships
- Field-based projects

Learn to Eat and Cook Healthy Meals

Healthy eating should be all about flavor and nothing about dieting. In fact, we're biologically hardwired to find great satisfaction in healthy, unrefined foods. Learn to cook a host of mouthwatering recipes based on the use of whole, unrefined, organic, local, and sustainable ingredients. The Academy empowers you to eat healthy for the rest of your life.

Practical Learning

The Culinary Academy gives students a thorough understanding of what it takes to succeed in the culinary industry. The best thing we do for our students is train them to be smart cooks. Academy students learn methods of cooking, what it means to taste and season food, and how to work efficiently in a kitchen.



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