

Computer Academy



Teachers: Emmanuel Onyeador, Sara Ketcham, Stephen Wright, Jeremy Sutton, Brennan Nicholas, David Smith, Karega Hart, Christina Ong, KC O'Keith

Directors Contacts:

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Administrator: Angela Taylor

Counselor: Jacqueline Johnson

Course Sequence:

	10th	11th	12th
Eng	Eng 2 (Academy or Paideia)	Eng 3 (Academy or Paideia)	Eng 4 (Academy or Paideia)
Hist	World History (Academy or Paideia)	US History (Academy or Paideia)	Gov/Econ (Academy or Paideia)
CTE*	AP CS Principles	AP Java or Intro to Computer Info Systems**	Capstone Course/ DE

*CTE: Career-Technical Education Course

**DE: Dual Enrollment (Peralta College course)

Mission/ Vision

Our Computer Science pathway helps students develop the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to their lives. Students are introduced to topics such as interface design, limits of computers and societal and ethical issues of software engineering. They also spend time learning about robotics, PC systems and how to build and troubleshoot computers all of which offer students hands-on learning experiences.

Career Preparation and Work-Based Learning

Our pathway provides field trips to leading technology companies and Bay Area universities, internship opportunities and more. We also look at computer organization and architecture, multimedia, programming, graphics and editing, Internet/web pages design, HTML, and designing and maintaining networks.

Sample Related Jobs

Programmer, Database Administration, Tech Support, Web Developer and Network Specialist

Academy Experiences

College Visits, Career Exploration Visits, Industry Partner Mentoring, 11th Grade Summer Internship/ School year Internship, Senior Capstone course

Engineering Academy



Teachers: Anastacia Love, Randolph Li

Directors Contacts: anastacia.love@ousd.org

Administrator: Dana Sudduth

Counselor: Susheela Moonsamy

Course Sequence:

	10th	11th	12th
Eng	Eng 2 (Academy or Paideia)	Eng 3 (Academy or Paideia)	Eng 4 (Academy or Paideia)
Sci	Chem or HP Chem	HP Physics	AP Physics w/Senior Capstone
CTE*	Engineering Principles	Architecture 1	OR Architecture 2 w/Senior Capstone

*CTE: Career-Technical Education Course

Mission/ Vision

The Engineering pathway teaches students physical and spatial reasoning through a unique combination of science-focused academic classes and design-focused career-technical education courses.

Students engage innovative and rigorous hands-on, project-based curriculum, (model building, bridge competition, engineering challenges) and are prepared for careers in civil and mechanical engineering and architecture.

Career Preparation and Work-Based Learning

Students will learn traditional and computer-aided drafting; Revit, Adobe Suite (photoshop & graphic design); residential home design; technical writing and presentation skills. Students will also be connected to industry partners who will be guest speakers, project advisors, and internship hosts.

Academy Experiences

Yearly Final Project for County Fair; Theme Park Field Trip; Internship Opportunities; Bridge Contest; Industry Tours

Sample Related Jobs

Architect, Civil Engineer, Mechanical Engineer, Scientist, Interior Designer, Quality

Control Engineer, Process Engineer, Patent Lawyer

Fashion, Art & Design Academy



Teachers: Katita Johnson, Alicia Arnold, Peter Heckel, Natalia Barcy, Stephen Clarke

Directors Contacts:

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alicia.arnold@ousd.org

Administrator: Dana Sudduth

Counselor: Jacqueline Johnson

Course Sequence:

	10th	11th	12th
Eng	Eng 2 (Academy or Paideia)	Eng 3 (Academy or Paideia)	Eng 4 (Academy or Paideia)
Hist	World History (Academy or Paideia)	US History (Academy or Paideia)	Gov/Econ (Academy or Paideia)
CTE *	Fashion Design, Graphic Design 1, Computer Animation 1	Fashion History, Graphic Design 2, Computer Animation 2	Fashion Marketing, Advanced Art, Computer Animation 2

*CTE: Career-Technical Education Course

Mission/ Vision

The Fashion, Art & Design pathway features classes in fashion design, visual arts, and graphic design. Our academy incorporates many hallmarks of the high school reform movement, such as creating a close, family-like atmosphere, integrating academic and career technical education, and establishing business partnerships. 10th-, 11th-, and 12th-graders are eligible to participate in the Academy. The three-year program provides students with a project-based curriculum, a mentor program, classroom speakers, field trips, and exploration of college and career options through job shadowing and internships.

Career Preparation and Work-Based Learning

Our unique program of fashion and art course focused in Fashion illustration and Portfolio Development, drawing, painting, photography, graphic design, comics, fashion design, accessories, sewing/garment construction, screen printing, stenciling advertising and marketing.

Sample Related Jobs

Stylist, Animator, Artist, Showroom Assistant, Set Decorator, Merchandise Displayers, Fashion Illustrator, Costume Designer, Textile Designer, Fashion Journalist, Lighting Specialist

Academy Experiences

FADA Gala; College Visits, Career Exploration Visits; Health & Wellness Week

Health Academy



Teachers: Livier Perez, Kathleen Bailey, Clifford Daigle, Shannon Brandon, Patrick Friedman, Tania Kappner, Charles Brown, Karina Orle, Lawrence Evans

Directors Contacts: livier.perez1@ousd.org,
kathleen.bailey@ousd.org

Administrator: Richard Fairly

Counselor: Susheela Moonsamy

Student Support Specialist: Vanessa Nutters

Course Sequence:

	10th	11th	12th
Eng	Eng 2 (Health Academy)	Eng 3 (or Paideia)	Eng 4 (or Paideia)
Hist	World History (Health Academy)	US History (or Paideia)	Gov/ Econ (or Paideia)
Sci	Physio	Chemistry	APES or AP Bio
CTE*	Physio Lab	Medical Chemistry	Advanced Bio (optional)

*CTE: Career-Technical Education Course

Mission/ Vision

All Oakland Tech students interested in health and/or health careers

- Will learn about clinical medicine, emergency medicine and public health
- Will acquire skills in first aid, health education and basic clinical skills
- Will learn about and be exposed to a variety of health care careers
- Will contribute to our community's health
- Will become a supportive community for each other

Career Preparation and Work-Based Learning

Tech's Health pathway has helped students prepare for careers in health and biology since 1984. We have active partnerships with local hospitals, health service organizations and professional schools that provide opportunities for field trips, guest speakers, college student mentors, internships and health-related service projects. Our success as a program and our partnerships with health care have been built on bringing together a diverse group of students around a shared interest in our community's health.

Sample Related Jobs

Dental Assistant, Registered Nurse, Paramedic, Diagnostic Medical Sonographer, Physician, Nurse Practitioner and Veterinarian

Key Experiences

Workplace visits; college visits; annual health fair; community health projects.

Race, Policy & Law Academy



Teachers: Heath Madom, Katherine Coleman

Coaches: :Jah-Yee Woo, Camrin Fredrick

Director's Contact: heath.madom@ousd.org

Administrator: Elisabeth Calzaretta

Course Sequence:

	10th	11th	12th
Eng	Eng 2 (Academy)	Eng 3 CP (Academy)	Eng 4 CP (Academy)
CTE*	Law & Society	Policy & Advocacy	Social Justice & Advocacy: Graduate Capstone
Hist	World History	US History or AP US Hstory (non-Academy)	American Govt./ Econ AP or CP (non-Academy)
Elective	Art & Communication for Social Change		
Dual Enrol	ADJUS 56: Criminal Investigation ADJUS 23: Criminal Procedure		

*CTE: Career-Technical Education Course

Sample Related Jobs

Lawyer, paralegal, policy advocate, nonprofit director, social worker, community organizer, government official, journalist

Mission/ Vision

The Race, Policy, and Law Academy will prepare students to work for racial and social justice through careers in law, policy, and organizing.

RPL is a safe and supportive community of engaged students, teachers, and community members who are dedicated to racial justice and empowerment through relevant curriculum and real world experiences.

Students will bring to their analysis of social issues a deep knowledge of the history of racial oppression, resistance by social movements, and how law and policy can be used as tools for social change. We hope to understand how the past has shaped today's society through exploring a variety of different narratives and experiences--particularly those that have been historically marginalized--so we can have a lasting social impact on our community and on a larger scale after we graduate from Oakland Tech.

Through the use of restorative justice practices, we will create a climate of safety and trust that enables courageous conversations in the classroom that will equip students to engage in those conversations outside of the classroom. Students will demonstrate empathy and effective communication to collaborate in diverse groups to innovate creative solutions to the pressing social justice issues of our day.

Career Preparation and Work-Based Learning

Students learn in action as they engage with a wide array of guest speakers and participate in field trips which may include:

- Courthouse
- Local, State and Federal Agencies
- Law Schools
- Colleges & Universities
- Community organizations