

Career Technical Education Pathway Program

Pathway and Course Listing



Environmental Resources Pathway



Industry Sector: Energy,
Environment & Utilities

Prerequisite courses:

Biology CP or H (grade 9)

Chemistry CP or H (grade 10)

Courses:

1. Environmental Science AP (grade 11)
2. Environmental Field Studies H/ROP (grade 12)
3. Solar Technology (grade 12) *proposed for 2017-18*

Games & Simulation Pathway/ Westlake Information Technology Academy



Industry Sector: Information
Communication Technology

No prerequisite courses

Courses:

1. Computer Graphics (grade 10)
2. Game Design (grade 11)
3. Intro to Digital Media (grade 12)

Patient Care Pathway



Industry Sector: Health
Science & Medical Technology

Prerequisite course:

Biology CP or H (grade 9)

Courses:

1. Medical Health Careers Chemistry CP (grade 10)
2. Medical Health Careers Anatomy/Physiology CP (grade 11)
3. Medical Terminology ROP (grade 11 or 12)
4. Offsite Medical ROP course (grade 12)

Production & Managerial Arts Pathway



Industry Sector: Arts, Media &
Entertainment

No prerequisite course

Courses:

Theater 1 (grade 10)

Technical Theater (grade 11)

Stage Production H/ROP (grade 12)

Programming & Systems Development Pathway



Industry Sector: Information
Communication Technology

Prerequisite course:

B or above in Algebra 2*

Courses:

Computer Programming 1 (grade 10)

Computer Science Principles AP (grade 10 or 11)

*Computer Science A AP (grade 11 or 12)

Computer Science Independent Projects H (grade 12)

Pathway students will also complete several Essential Career Connections each year. These may include, but are not limited to, the following:

- Industry guest speakers
- Field Trips
- Resume building
- Job Interview practice
- Competitions
- Special projects
- Job Shadow
- Career mentor
- Internship

Students complete the pathway program by completing 2 or more courses listed and 6 Essential Career Connection by the end of the senior year