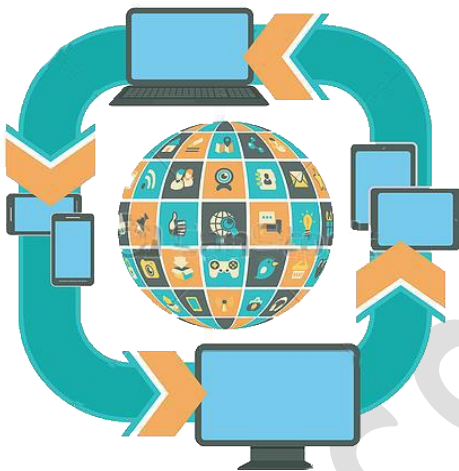


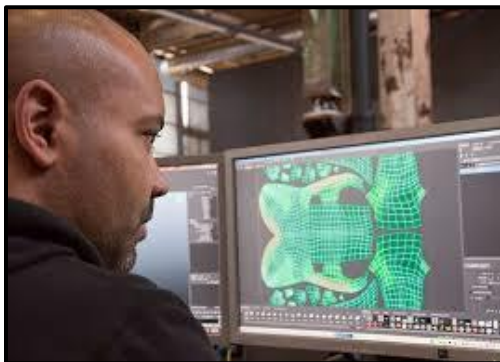
UNIVERSITY PROGRAMS

Lakeland Regional High School

Computer Languages & Programming



The **UPAL** programs at Lakeland are a specially designed set of curricula for highly-motivated students that seek academic challenges, a specific focus of study and a dedicated faculty that engage students with not only enlightenment, but also real-world relevance.



Common Themes

The **UPAL** curricula are devised around a set of common themes, which are:

- ☐ Collaboration
- ☐ Problem-solving
- ☐ Critical-thinking
- ☐ Research
- ☐ Technology

These themes represent the hallmarks of a modern, 21st. century education preparing students not just for college, but for life beyond college. With teachers using creative and innovative approaches to lessons, students will be engaged in their studies, analyze the information from multiple perspectives, and be capable of developing solutions to real-world problems.

UPAL Computer Languages Program

The aims of Lakeland's **UPAL** Computer Languages Program are to encourage students to think creatively, to develop problem-solving skills using various computer languages such as SCRATCH, C++, Java and Python, and to produce meaningful projects that test the competency of their skills. During these processes students will be exposed to the ever-changing aspects of programming and interact with professionals in the field to gain insight into potential career pathways. By engaging in these activities students can learn how ideas and innovations are brought to realization. Throughout this program course projects play an integral role in the development of the students' talents and offer experiences to fulfill specified project criteria.

<i>Grade 9</i>
English 9
Physical Education/Health
Mathematics
Science
World History
World Language
Lunch
Study Hall/ Pathways to College & Career
SCRATCH Programming
Elective

<i>Grade 10</i>
English 9
Physical Education/Health
Mathematics
Science
World History
World Language
Lunch
Study Hall/ Pathways to College & Career
**Comp. Science C++

<i>Grade 11</i>
English 11
Physical Education/Health
Mathematics
Science
U.S. History 2
World Language or Elective
Lunch
Study Hall
**AP Computer Science Principles or AP Computer Science A
**Java or Python Elective
Computer Applications & Personal Financial Literacy*

<i>Grade 12</i>
English 12
Physical Education/Health
Mathematics
Science or Elective
World Language or Elective
Lunch
Study Hall
**AP Computer Science Principles or AP Computer Science A
**Java or Python Elective
Senior Option

*Required by State of NJ

**Courses offered alternating years

Admissions Criteria

- ☐ Student interest and commitment to program
- ☐ Academic grades of "B" or better in middle school

Admissions Process

- ☐ Applications available online at **www.Lakeland.K12.nj.us**
UPAL Application link
- ☐ Same application for all UPAL Programs
- ☐ Indicate first and second choice on application
- ☐ Parent endorsement paperwork must be completed

Submit application via e-mail:

UPAL@Lakeland.k12.nj.us

Primary Deadline for Application:

LAST Friday of January @ 4:00 PM

