LKSD Career Pathways

The purpose of the LKSD career pathways is to provide students the opportunity to explore and prepare in careers with an emphasis on careers that are regionally relevant or high demand in our state.

## Industry areas:

**Engineering/STEM**

**Aviation**

**Health**

**Media Communication**

**Tribal Management**

**Skilled Trades**

**Education**

The LKSD career pathway model includes components designed to move from exploration to a concentrated experience with specific industry skill development and post-secondary readiness. The seven components include: Middle School Exploration, Industry Intro Course, Core Academic Expectations, Concentrator Industry Courses beyond Intro, and Link to Industry or Post-secondary bridge experience.

|  |  |
| --- | --- |
| Pathway Component | Skilled Trades Example |
| Middle School Exploration | Career Explorations |
| Introduction Course | Intro to Skilled Trades- VTC |
| Core Academics | Pre-algebra, physical science |
| Concentrated Industry-Based Courses | Basic shop, metal fabrication, auto shop  (Ready Program) |
| Industry Connection | YKHC hospital addition |
| Transition | Yuut Elitnaurviat |
| Certificates | NCCER core, OSHA 10, First aid/CPR |

Additionally, LKSD has identified a variety of delivery models to accomplish pathway access to students across the district. The middle school exploration is typically a short-term intensive experience in Bethel. Introductory classes are delivered in a variety of ways to ensure that all sites have the opportunity to access these entry classes. Concentrator classes may require participation in a Ready Program or summer intensive, however some are available at sites.

# LKSD College and Career Pathway Components

|  | Engineering/ STEM | Aviation | Health | Media Communication | Tribal Management | Skilled Trades | Education |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Middle School Exploration** | Lego Robotics  ANSEP Middle school Academy | ACE Academy | *Science Fair- expansion coming* | Multi-media contest, speech | Social Studies | *Non identified yet* | *Future Teachers of America* |
| **Intro Course** | SITES & READY  Intro to Engineering | VTC & READY  Intro to Aviation | DISTANCE & READY  Intro to Health Careers UAF-KUC HLTH 105 | VTC & READY  Introduction to multi-media | ONSITE and VTC  Tribal Government A & B | ONSITE INTENSIVE  Welding 1  BRHS  General Shop  VTC:  Intro to Skilled Trades |  |
| **Core Academic Pre-requisites beyond Intro** | Pre-Requisites:  Alg 1 & Geo  Biology | Pre-Requisites:  Algebra 1 | Biology  Algebra | LA 1,  World History | None | None | LA 1  Algebra |
| **Concentrator Courses** | READY  3D Solid Modeling  Architecture and Green materials  SITES & VTC  Robotics | READY  Ground School-currently using online course facilitated by HS teacher | DISTANCE:  Math in Health Care HLTH 116  Med Term HLTH 100  FirstAid/CPR HLTH122  READY:  Medical Teminology  CNA- certified nursing assistant | Blended  Advanced Multi-media  Summer Intensive  Film  Distance  Digital Photography | SITES & VTC\*  Tribal Management, Rural Utilities Maintenance, Tribal Justice  (being developed) | Currently only available at BRHS  Construction Trades  Metal Fab 1& 2  INTENSIVE  OSHA 10  Encouraged:  3D Solid Modeling  Architecture and Green materials | SITES  Early Childhood Education with classroom practicum Course A&B |
| **Core Courses for Concentrators** | READY:  Chemistry  Physics  Algebra 2  Pre-Calc | Geometry  Algebra 2  Physical Science  and/or Physics | Dependent on career goal but generally:  Biology  Chemistry  Algebra 2 + | Digital composition | Upper level LA menu, Algebra 2, Psychology preferred | Construction Math  Algebra 1  Geometry | Upper Level LA Menu  Algebra 2  Psychology preferred |
| **Industry Connection** | Through ANSEP internships | Multiple Aviation businesses with ACE | YKHC Nursing Home clinicals for CNA | KYUK internship | Community agencies | YKHC hospital addition | “practicum” in LKSD classrooms |
| **Post-Secondary Bridge** | ANSEP – Alaska Native Science and Engineering Program  Acceleration Academy and Summer Bridge | Yuut Yaqungviat Flight School  Exploring UAA options | Della Keats Health Sciences Summer program  Alaska Native Community Advancement in Psychology ANCAP | Identified need | KUC, UAF  Working on possibility of internships with community agencies | Yuut Elitnaurviat- direct to apprenticeship agreement  Also  Rural Maintenance Technician Tech Prep Agreement | *Recommend*  *RAHI*  *Upward Bound* |
| **Certificates or Credits Available** | SolidWorks Cert.  College credit at ANSEP | Ground School Cert. | CNA Certificate  College Credit at Della Keats | *Courses that result in certificates are being explored* | Occupational endorsement through UAF | NCCER core cert | Para-Pro Praxis |

Recommended Pathways

Italics refers to pathway course or concentrator core

## Aviation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9th | 10th | 11th | 12th |
| Language Arts | LA 1 | LA 2 | LA Menu | LA Menu |
|  | Lit Lab (elect) | Menu |  |  |
| Math | Pre-Algebra or Algebra | Algebra or ***Geometry*** | Geometry or ***Algebra 2*** | ***Algebra 2***  or pre-calc |
| Science | Earth Science | Biology | ***Physical Science*** | ***Physics*** |
| Social Studies | World History | Am. History | Ak Studies/Govt | Econ/Tribal Govt |
| Health/Life skills/ PE | Health | PE | PLS/CLS | Health or PE choice |
| Elective | ***Intro to Aviation*** | Elective | ***Ground School*** | **Internship or flight school dual credit (2.0)** |
|  | Elective | Elective | Elective |
|  |  |  | Elective | Elective |

## Health- Allied Health Positions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9th | 10th | 11th | 12th |
| Language Arts | LA 1 | LA 2 | LA Menu | LA Menu |
|  | Lit Lab (elect) | Menu |  |  |
| Math | Pre-Algebra or Algebra | Algebra or ***Geometry*** | Geometry or ***Algebra 2*** | ***Algebra 2***  or pre-calc |
| Science | Earth Science | ***Biology*** | Physical Science | ***Chemistry*** |
| Social Studies | World History | Am. History | Ak Studies/Govt | Econ/Tribal Govt |
| Health/Life skills/ PE | Health | PE | PLS/CLS | Health or PE choice |
| Elective | ***Intro to Health Careers*** | Elective | ***Medical Terminology*** |  |
|  | Elective | Elective | Elective |  |
|  |  |  | Elective | Elective |

## Health- Provider

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9th | 10th | 11th | 12th |
| Language Arts | LA 1 | LA 2 | LA Menu | LA Menu |
|  | Lit Lab (elect) | Menu |  |  |
| Math | Algebra or  Geometry | Geometry or Algebra 2 | Algebra 2 or ***Pre-Calculus*** | ***Pre-Calc*** or Calculus |
| Science | Biology | ***Chemistry*** | ***AP Biology*** | ***Physics*** |
| Social Studies | World History | Am. History | Ak Studies/Govt | Econ/Tribal Govt |
| Health/Life skills/ PE | Health | PE | PLS/CLS |  |
| Elective | ***Intro to Health Careers*** | Elective | ***Medical Terminology*** | ***CNA (3.0)*** |
|  | Foreign Language | Foreign Language | **Psychology** |  |
|  |  |  | Elective | Elective |

## Media Communications

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9th | 10th | 11th | 12th |
| Language Arts | LA 1 | LA 2 | LA Menu | LA Menu |
|  | Lit Lab (elect) | Menu |  |  |
| Math | Algebra or  Geometry | Geometry or Algebra 2 | Algebra 2 or Pre-Calculus | Pre-Calc or Calculus |
| Science | Earth | Biology | Physical Science or Chemistry | Physics or Chemistry |
| Social Studies | World History | Am. History | Ak Studies/Govt | Econ/Tribal Govt |
| Health/Life skills/ PE | Health | PE | PLS/CLS |  |
| Elective | ***Intro to Multi-Media*** | ***Film Academy*** | ***Advanced Multi-Media*** | ***KYUK Internship*** |
|  | Foreign Language | Foreign Language |  |  |
|  |  |  | Elective | Elective |