

# Klein ISD & Lone Star College Geospatial Engineering & Land Surveying Pathway



|   |  | Core Credit Attainment |                   |            |
|---|--|------------------------|-------------------|------------|
| <b>Grade 9</b>                                    |  |                        |                   |            |
| <b>Fall</b>                                       |  | <b>Spring</b>          |                   |            |
| 1   | English 1 KP   | ✓                      |                   |            |
| 2   | Biology I KP   | ✓                      |                   |            |
| 3   | Geometry KP  | ✓                      |                   |            |
| 4   | Human Geography AP/World History AP                                      | ✓                      |                   |            |
| 5   | LOTE I or LOTE II  | ✓                      |                   |            |
| 6   | HS PE/Athletics  | ✓                      |                   |            |
| 7   | Principles of Applied Engineering  | ✓                      |                   |            |
| <b>KISD Summer Bridge or LSC Blended Learning</b> |  | <b>HS STEM</b>         | <b>GIS Award*</b> | <b>AS*</b> |
| 1   | EDUC 1300  |                        |                   | ✓          |
| 2   | PE (PHED 1164)   |                        |                   | ✓          |
| <b>Grade 10</b>                                   |  |                        |                   |            |
| <b>Fall</b>                                       |  | <b>Spring</b>          |                   |            |
| 1   | English II KP  | ✓                      |                   |            |
| 2   | Chemistry DC (CHEM 1405) *On Ramps                                       | ✓                      |                   | ✓          |
| 3   | Algebra II KP  | ✓                      |                   |            |
| 4   | US History DC (HIST 1301)  | ✓                      |                   |            |
| 5   | LOTE II or HS Elective   | ✓                      |                   |            |
| 6   | Computer Aided Drafting/Basic  | ✓                      | ✓                 | ✓          |
| 7   | Computer-Aided Drafting (DFTG 1309)<br>AutoCAD Certification             |                        |                   | ✓          |
| <b>Grade 11</b>                                   |  | <b>HS STEM</b>         | <b>GIS Award*</b> | <b>AS*</b> |
| <b>Fall</b>                                       |  | <b>Spring</b>          |                   |            |
| 1   | English III DC (ENGL 1301)   | ✓                      |                   | ✓          |
| 2   | Physics DC (PHYS 1401) *On Ramps   | ✓                      |                   | ✓          |
| 3   | Pre-Calculus DC (MATH 2412) or College Algebra (MATH 1314) *On Ramps     | ✓                      |                   | ✓          |
| 4   | Federal Government DC (GOVT 2305)  | ✓                      |                   | ✓          |
| 5   | Fine Arts  | ✓                      |                   | ✓          |
| 6   | Raster-Based GIS DC: Intro to Raster-                                    | ✓                      | ✓                 | ✓          |
| 7   | Based GIS (GISC 1421)  |                        |                   | ✓          |
| <b>Grade 12</b>                                   |  | <b>HS STEM</b>         | <b>GIS Award*</b> | <b>AS*</b> |
| <b>Fall</b>                                       |  | <b>Spring</b>          |                   |            |
| 1   | English IV DC (ENGL 2322/2323)   | ✓                      |                   | ✓          |
| 2   | Biology DC (BIOL 1406)   | ✓                      |                   | ✓          |
| 3   | Calculus AP (MATH 2413) or PreCal (MATH 2412) *On Ramps                  |                        |                   | ✓          |
| 4   | Economics DC (ECON 2301)   | ✓                      |                   | ✓          |
| 5   | Elective or Computer Science I KP  |                        |                   |            |
| 6   | Practicum in STEM DC/Cartography &<br>Geography in GIS & GPS (GISC 1401) | ✓                      | ✓                 | ✓          |
| 7   |  |                        |                   | ✓          |

\* Geographic Information Systems, Occupational Skills Award

\* Associate of Science Degree

Algebra 1 must be completed prior to entering 9th grade

**Individual student 4 year plans may vary**

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