

### Klein ISD OnRamps Course Descriptions

Humanities (English, Social Studies)	
<b>Onramps</b>	
<a href="#"><u>OnRamps Economics</u></a> <b>ECON 2302</b>	<p>Economics introduces students to the principles, models, and conditions that influence how consumers, businesses, governments, and workers make and evaluate economic decisions. The course places emphasis on microeconomics concepts and quantitative reasoning as students employ logic, mathematics, and technology to interpret basic statistics and apply economic analysis. It also features macroeconomics topics and personal financial literacy content in addition to core concepts including scarcity and opportunity costs, supply and demand, market structures, competition, and behavioral economics. <b><i>Students can earn three hours of UT Austin credit.</i></b></p> <p>KISD Number: 0257OR            Credit 0.5            Grade Level 11-12            Prerequisite: None Algebra II (recommended or concurrent enrollment)            Adv Grade Point: Yes</p>
<a href="#"><u>OnRamps US History</u></a> <b>HIST 1301</b> <b>HIST 1302</b>	<p>In these <b><i>two sequential courses</i></b>, students explore the scope and depth of the American experience, engaging with course material both independently and collaboratively to develop critical thinking skills, analyze evidence-based historical narratives, and conduct archival research. Each unit consists of primary and secondary sources that challenge students to uncover the complexities within historical study. <b><i>Students can earn six hours of UT Austin credit (3 for Lecture, 1 for Lab).</i></b></p> <p>KISD Number: 0211ORA, 0211ORB            Credit 1.0            Grade Level 10-12            Prerequisite: English 1, English 2 (or concurrent enrollment)            Adv Grade Point: Yes</p>
Mathematics Courses	
<a href="#"><u>OnRamps College Algebra</u></a> <b>MATH 1314</b>	<p>Students deepen their critical thinking skills and develop their ability to persist through challenges as they explore function families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic.</p>

	<p><b><i>Students can earn three hours of UT Austin credit.</i></b></p> <p>KISD Number:0389ORA, 0389ORB  Grade Level 12  Credit: 1 credit  Prerequisite: Algebra 1, Geometry (Recommended)  Adv Grade Point: Yes</p>
<p><b><u>OnRamps</u></b>  <b><u>Precalculus</u></b>  <b>MATH 2312</b></p>	<p>Students deepen and extend their knowledge of functions, graphs, and equations from their high school algebra and geometry courses so they can successfully work with the concepts in a rigorous university-level calculus course. <b><i>Students can earn three hours of UT Austin credit.</i></b></p> <p>KISD Number: 0360ORA,0360ORB  Grade Level 11-12  Credit: 1.0  Prerequisite: Geometry, Algebra 2  Adv Grade Point: Yes</p>
<p><b><u>OnRamps</u></b>  <b><u>Statistics</u></b>  <b>MATH 1342</b></p>	<p>Students develop the quantitative reasoning skills and habits of mind necessary to use data science and mathematical thinking effectively across multiple disciplines while learning the interactive applications and coding skills needed to meet the demands of higher education and the workplace.</p> <p>KISD Number: 0396ORA, 0396ORB  Grade Level 10-12  Credit 1.0  Prerequisite: Algebra 1, Algebra 2 (Recommended)  Adv. Grade Point: Yes</p>
<b>Science Courses</b>	
<p><b><u>OnRamps</u></b>  <b><u>Biology I +Lab</u></b>  <b>BIOL 1306</b>  <b>BIOL 1106</b></p>	<p>This year-long course explores three big ideas of biology: the structure and function of biomolecules, the flow of energy through living systems via photosynthesis and cellular respiration, and how genetic information is expressed and transmitted both within and between cells. <b><i>Students can earn four hours of UT Austin credit (3 for Lecture, 1 for Lab).</i></b></p> <p>KISD Number: 0425OR  Grade Level 11-12  Credit 1.0  Prerequisite: TEKS Based HS Biology; TEKS Based HS Chemistry  Adv Grade Point: Yes</p>
<p><b><u>OnRamps</u></b>  <b><u>Chemistry 1</u></b>  <b><u>+Lab</u></b></p>	<p>The Principles of Chemistry I course addresses the nature of matter, energy, chemical reactions, and chemical thermodynamics. Students will learn about descriptive chemistry of matter in the natural world, as well as compositional and</p>

<p><b>CHEM 1311</b> <b>CHEM 1111</b></p>	<p>reaction stoichiometry of chemical compounds. <b><i>Students can earn four hours of UT Austin credit (3 for Lecture, 1 for Lab).</i></b></p> <p>KISD Number: 0480OR Grade Level 11-12 Credit: 1.0 Prerequisite: Algebra 1 Adv Grade Point: Yes</p>
<p><b><u><a href="#">OnRamps</a></u></b> <b><u><a href="#">GeoScience</a></u></b> <b>GEO 302E</b></p>	<p>Earth, Wind, and Fire is a course in geoscience literacy. It covers the fundamentals of how the Earth works, and how its various systems—the lithosphere, atmosphere, hydrosphere, and biosphere—interact to form the complex world in which we live. <b><i>Students can earn three hours of UT Austin credit.</i></b></p> <p>KISD Number: 0489ORA Grade Level 10-12 Credit 1.0 Prerequisite: Biology or IPC Adv. Grade Point: Yes</p>
<p><b><u><a href="#">OnRamps</a></u></b> <b><u><a href="#">Physics I + Lab</a></u></b> <b>PHYS 1301</b> <b>PHYS 1101</b></p>	<p>Mechanics, Heat, and Sound introduces big ideas in physics, such as Newtonian mechanics (including motion, force, energy, and rotation), as well as solid and fluid mechanics, oscillations, waves, sound, and heat. <b><i>Students can earn four hours of UT Austin credit (3 for Lecture, 1 for Lab)..</i></b></p> <p>KISD Number: 0441ORA, 0441ORB Grade Level 11-12 Credit 1.0 Prerequisite: Algebra 1, Geometry; Algebra 2 or Precalculus (Recommended) Adv Grade Point: Yes</p>
<p><b><u><a href="#">OnRamps</a></u></b> <b><u><a href="#">Physics II</a></u></b> <b>PHYS 1302</b></p>	<p>This is the second course in a sequence of algebra-based (non-calculus) courses. Students are introduced to the topics of electricity, magnetism, optics, waves, and quantum and nuclear physics while obtaining practical experience with electrical circuits and optical devices. <b><i>Students can earn three hours of UT Austin credit.</i></b></p> <p>KISD Number: 0448ORA, 0448ORB Grade Level 11-12 Credit 1.0 Prerequisite: TEKS Based Physics Course, Algebra 2, Geometry; AP Physics I , Honors Physics, or PHYS 1301 (Recommended) Adv Grade Point: Yes</p>

