| Hin <br> Cluster Overview: Focuses on careers in planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. |  |  | Biotechnology Research and Development |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Career Goal ( $\mathbf{O}^{*}$ NET Code): Biological Technician (19-4021), Medical Scientist (19-1042), Biostatistician (15-2041), Biochemist (19-1021). | Student Name: <br> Grade: $\qquad$ <br> School: $\qquad$ |  |  |
| SUGGESTED COURSEWORK |  |  |  | EXTENDED LEARNING EXPERIENCES |  |  |
|  | $\stackrel{5}{\square}$ | HS Courses: |  | Curricular Experiences: <br> Health Occupations Students of America NASA Research Program |  | Extracurricular Experiences: <br> Language Immersion Programs School Newspaper |
|  | 末 | Core Courses: | English I World Geography Professional Communications <br> Algebra I Physical Education  <br> Biology Languages other than English I  |  |  | Science Club <br> STARS Research Program <br> Student Government <br> UIL Academic Competitions |
|  |  | Career-Related Electives: | Principles of Health Science |  |  |  |
|  | $\stackrel{\tilde{0}}{\underline{0}}$ | Core Courses: | World History <br> Languages other than English II | Career Learning Experiences: <br> Career Preparation <br> Internship <br> Job Shadowing |  | Service Learning Experiences: <br> Boy Scouts of America <br> Campus Service Organizations Community Service Volunteer <br> Girl Scouts of the USA <br> Peer Mentoring / Peer Tutoring Science Camps |
|  |  | Career-Related <br> Electives: | Medical Terminology |  |  |  |
|  | $\underset{\Xi}{\Xi}$ | Core Courses: | English III United States History <br> Algebra II  <br> Physics  |  |  |  |
|  |  | Career-Related Electives: | Health Science Technology I or Anatomy and Physiology or Precalculus or Languages other than English III | COLLEGE CREDIT OPPORTUNITIES -- High School |  |  |
|  | N | Core Courses: | English IV Government/Economics <br> AP Statistics <br> AP Biology or AP Chemistry Fine Arts | Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus. |  |  |
|  |  | Career-Related <br> Electives: |  |  |  |  |  |
|  |  | Assay Analyst <br> NOTE: These experiences m | may be started and/or completed as part of the high school experience. |  |  | Professional Associations: <br> American Academy of Forensic Science <br> American Chemical Society <br> American Society for Microbiology <br> American Statistical Association <br> Association for Professionals in Infection Control and Epidemiology <br> Biotechnology Industry Organization |
|  |  | OSHA CareerSafe | ll or part of these certificates as part of the high school experience. | Career Options: |  |  |
|  |  | Applied Science | Biotechnology | Career Options: <br> Biological Science Technician <br> Chemical Technician | Forensic Science Technician Environmental Technician Research Assistant | National Academy of Sciences <br> National Environmental Health Association <br> Texas Environmental Health Association |
|  |  | Biology Biomedical Engineering | Biotechnology Forensic Science <br> Chemistry Statistics | Career Options: Biomedical Engineer Biotechnologist | Forensic Scientist Clinical Trials Coordinator Environmental Technologist |  |
|  |  | Epidemiology <br> Biological Science | Forensic Science Independent Research | Career Options: Epidemiologist Biostatistician | Bioinformatics Scientist Forensic Scientist Research Scientist |  |
| Students may select other elective courses for personal enrichment purposes. |  |  |  | This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2009. All plans meet high school graduation requirements as well as college entrance requirements. |  |  |

