

| Participating ISD: | Pioneer Technology & Arts Academy | | Career Pathway Program – 4-yr Plan | | Participating Colleges: | Richland College and Brookhaven College | | | | | | |
|---|--|---------------------|---|---|---|---|--|--|---|----------------------|--|-------------|
| Participating HS: | PTAA Mesquite, Greenville | | (Recommended Graduation Plan) | | AS Degree: | Associate of Science with concentration toward Pre-Med or Pre-Dental | | | | | | |
| HS Plan: | Health Sciences | | Academic Year 2018-2019 | | Towards BSN Degree: | Bachelor of Science, Pre-Med/Pre-Dental | | | | | | |
| HIGH SCHOOL/SECONDARY | | | | | | COLLEGE/POSTSECONDARY | | | | | | |
| Periods | 9 th | | 10 th | | 11 th | | 12 th | | Year 5 | | Year 6 | |
| | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring | Semester I (Fall) | Semester II (Spring) | Semester III | Semester IV |
| 1 | English I | | English II | | English III | | #1520 PHYS 2426 University Physics II | #1521 English ENGLISH 2321/2322/2323 | ** - Students must have 4 science credits in order to graduate at the distinguished level of achievement. | | | |
| 2 | Geometry | | Algebra II | | #2723 AQR (*) MATH 1332 Contemporary Math | #2724 Applied Linear Algebra ENGR 2300 Applied Linear Algebra | #TBD Biology for Science Major II BIOL 1407 Biology for Science Majors II | #5018 General Chemistry Development I CHEM 1411 General Chemistry 1 | | | | |
| 3 | World History | | US History | | US Government | | Economics | | | | | |
| 4 | Biology | | Chemistry | | Physics **If a student takes Physics in Grade 8, then that student will need to choose another science credit in Grade 11 in order to receive 4 science credits. | | #7899/7900 Engineering Mechanics-Static ENGR 2302 | #7899/7900 Engineering Mechanics-Dynamic ENGR 2302 | #TBD - Dual Credit Course Number to Be Decided | | | |
| 5 | #7838 MAPS (TSI Preparation) | | World Languages I | | World Languages II | | Engineering Mechanics Static | Engineering Mechanics Dynamic | | | | |
| 6 | Fine Arts | | PE (0.5 credit) | #1943 ECON 2301 Principles of Macroeconomics | Fine Arts Appreciation, Art, Music or Dance (+) | #TBD Biology for Science Major I BIOL 1407 Biology for Science Majors I | Programming for Engineers ENGR 2304 Programming for Engineers | Math Differential Equation Math 2420 Differential Equations | | | | |
| 7 | #7731/7732 Principles of Info Tech ITSC 1401 Intro to Computers (not required in AAS or certificate A) | PE (0.5 credit) | #7814/7815 English 1301 Composition 1 | #TBD English 1302 Composition 2 | #1520 PHYS 2425 University Physics I | #7739/7740 Introduction to Engineering ENGR 1201 Introduction to Engineering | #TBD Practicum in #D Calculus II and Math 2414 Calculus II | #TBD Practicum in #D Calculus III and Math 2415 Calculus III | | | | |
| 8 | | Health (0.5 credit) | | | | | | | | | | |
| Total possible college credits completed in high school = 71 | | | | | | | | | | | | |
| High School Courses | | | Certificate A (Dual Credit) | | Certificate B (Dual Credit) | | Dual credit courses | | Courses in red are NOT part of the Certificate or AAS degree. | | College courses that are NOT taught as dual credit | |

(+) Dual Credit Fine Arts Appreciation options:
See counselor/advisor for placement
#4403 Studio Art I (DC) Sem1
 ARTS 1301 – Art Appreciation
#8878 Dance Appreciation 1 (DC)
 DANC 2303 – Dance Appreciation I
#8845 Theatre I (DC) Sem1
 DRAM 1310 – Introduction to Theatre
#8853 Theatre I (DC) Sem2
 DRAM 2361 -- History of Theater
#8837 Music Appreciation (DC) Sem2
 MUSI 1306 -- Music Appreciation I

(*) Dual Credit MATH options:
See counselor/advisor for placement
Any one course required for AAS; options for second Math required for high school:
#2723 Advanced Quantitative Reasoning
 MATH 1332- Contemporary Math I
#2918 Independent Study
 MATH 1324- Math for Business & Social Science
#2619 Statistics
 MATH 2342- Elementary Statistical Methods
#2850 Pre-Calculus (Sem 1)
 MATH 1314 - College Algebra
#2850 Pre-Calculus (Sem 2)
 MATH 1316 - Plane Trigonometry