



Name: _____

Grade: _____

Parent Signature: _____



Biomedical Science Program

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Bioscience Program of the Environmental and Life Sciences Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at Ponaganset High School is customized with course titles and appropriate high school graduation requirements as well as career program requirements.

| EDUCATION LEVELS | GRADE | English/ Language Arts (4 credits) | Math (4 credits = 3 + 1 math-related) | Science (3 credits; 3 lab sciences for 4 year college) | Social Studies/ Sciences (3 credits) | Physical Education/Health (2 credits = 0.5 x 4 years) | Other | Scheduling Notes | SAMPLE Occupations Relating to This CTE Program | | |
|---|--|---|---|---|---|---|--|--|--|--|--|
| Interest Inventory Administered and Plan of Study Initiated for all Learners | | | | | | | | | | | |
| GRADUATION REQUIREMENTS | 9 | English 9 CP/H OR Humanities English CP/H (1 credit) | Algebra I CP OR Alg II CP/H (1 credit) | PATHWAY | Topics in Social Studies CP/H or other SS elective (1 credit) | Physical Education/Health 9/10 (0.5 credit) | Spanish I or Chinese I (1 credit) Required for 4 yr. college students | <i>Honors Biology or CP Biology should be an additional option</i> | Occupations Requiring Less than Baccalaureate Degree ► Dental Assistant/Hygienist ► EMT/Paramedic ► Health Information Coder ► Home Health Aide ► Lab Technician ► Phlebotomist ► Radiographer ► Registered Nurse Occupations Requiring Baccalaureate Degree ► Athletic Trainer ► Biochemist ► Biostatistician ► Geneticist ► Industrial Hygienist ► Nutritionist ► Occupational Therapist ► Physician (MD/DO) ► Physician's Assistant ► Psychologist ► Radiologist ► Research Scientist ► Speech/Language Pathologist ► Toxicologist ► Veterinarian | | |
| | 10 | English 10 CP/H (1 credit) | Geometry CP/H OR Algebra II CP (1 credit) | Biology, Chemistry, Physical Science OR AP Biology (1 credit) | U.S. History CP/H/EEP/AP (1 credit) | Physical Education/Health 9/10 (0.5 credit) | Spanish II or Chinese II (1 credit) Required for 4 yr. college students | <i>recommended 0.5 credit microbiology OR Human Anatomy/Physiology</i> | | | |
| | 11 | English 11 CP/H OR AP Language (1 credit) | Algebra II CP OR PreCalc CP/H OR Stats (1 credit) | Physics CP/AP OR AP Chemistry (1 credit) | Twentieth Century CP/H or other SS elective (1 credit) | Physical Education/Health 11/12 or Strength Training (0.5 credit) | Spanish III, Spanish III for medical careers or Chinese III (1 credit) Recommended for 4 yr. college students | | | | |
| | College Placement Assessments-Academic/Career Advisement Provided | | | | | | | | | | |
| | 12 | English 12 CP/H OR AP Literature (1 credit) | PreCalculus, Principles of Stats, AP Statistics, Personal Finance, AP Calculus or math-related course | Chemistry/Physics/ AP Environmental/ AP Chemistry | Elective: Economics, US/Global Affairs, Sociology, etc. | Physical Education/Health 11/12 or Strength Training (0.5 credit) | Spanish IV, Spanish IV for medical careers or Chinese IV (1 credit) Recommended for 4 yr. college students | | | | |
| PLAN OF STUDY: Program Courses and Additional Electives | | | | | | TOTAL CREDITS | SCHEDULING REMINDERS | | | | |
| CAREER RELATED ELECTIVES | 9 | PLTW Principles of Biomedical Science-Honors (1 credit) | Mandatory for the Program | | | | Fine Art elective (0.5 credits) | *All plans of study need to meet learner's career goals and program requirements. *All course selections should meet required annual credit maximum. *All course requests are utilized to build the master schedule for the following school year. *Please be sure to select the appropriate courses at the time of registration. *Participation in appropriate work-based learning activities to support and reinforce classroom and laboratory learning is recommended for all students. | | | |
| | 10 | PLTW Human Body Systems-Honors (1 credit) | Mandatory for the Program | | | | | | | | |
| | 11 | PLTW Medical Interventions-Honors (1 credit) | Mandatory for the Program | | | | | | | | |
| | 12 | PLTW Biomedical Innovation-Honors (0.5 credit) | Must take a minimum of 3 years of Biomedical science courses - 4 is recommended. | RECOMMENDED COURSES: AP Bio; Anatomy & Physiology; Microbiology; Orientation to Medical Imaging & Patient Care; Medical Math; College Writing or AP English Lang & Comp. | | | | | | | |