



Name: \_\_\_\_\_

Grade: \_\_\_\_\_

Parent Signature: \_\_\_\_\_



## Biomedical Science Pathway

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

This Career Cluster Plan of Study (based on the Health Science 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 pathway 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 Career Cluster		
<b>Interest Inventory Administered and Plan of Study Initiated for all Learners</b>											
<b>GRADUATION REQUIREMENTS</b>	9	English 9 CP/H <b>OR</b> Humanities English CP/H (1 credit)	Algebra I CP <b>OR</b> 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>	<b>Occupations Requiring Less than Baccalaureate Degree</b> ► Dental Assistant/Hygienist ► EMT/Paramedic ► Health Information Coder ► Home Health Aide ► Lab Technician ► Phlebotomist ► Radiographer ► Registered Nurse <b>Occupations Requiring Baccalaureate Degree</b> ► 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 <b>OR</b> Algebra II CP (1 credit)	Biology, Chemistry, Physical Science <b>OR</b> 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 <b>OR</b> AP Language (1 credit)	Algebra II CP <b>OR</b> PreCalc CP/H <b>OR</b> Stats (1 credit)	Physics CP/AP <b>OR</b> 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				
	<b>College Placement Assessments-Academic/Career Advisement Provided</b>										
	12	English 12 CP/H <b>OR</b> 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				
<b>PLAN OF STUDY: Pathway Courses and Additional Electives</b>						<b>TOTAL CREDITS</b>	<b>SCHEDULING REMINDERS</b>				
<b>CAREER RELATED ELECTIVES</b>	9	PLTW Principles of Biomedical Science-Honors (1 credit)	Mandatory for the pathway.				Fine Art elective (0.5 credits)	*All plans of study need to meet learner's career goals and pathway 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 pathway.								
	11	PLTW Medical Interventions-Honors (1 credit)	Mandatory for the pathway.								
	12	PLTW Biomedical Innovation-Honors (0.5 credit)	Must take a minimum of 3 years of Biomedical science courses - 4 is recommended.	<b>RECOMMENDED COURSES:</b> AP Bio; Anatomy & Physiology; Microbiology; Orientation to Medical Imaging & Patient Care; Medical Math; College Writing <b>or</b> AP English Lang & Comp.							