



Name _____

Learner ID _____

School/College/University _____

SAMPLE PROGRAM OF STUDY

Cluster: Health Science

Pathway: Biotechnology Research and Development

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

This Career Pathway 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 an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Biotechnology Research and Development Pathway	SAMPLE Occupations Relating to This Pathway	
Interest Inventory Administered and Plan of Study Initiated for all Learners									
SECONDARY	9	English Composition	Algebra I	Biology	Social Studies 9	Foreign Language Health	Principles of Biomedical Science Health Occupations 1	Occupations Requiring Less than Baccalaureate Degree ► Animal Services Technician ► Animal Services Technologist ► Data Entry Clerk ► Lab Assistant-Genetics ► Lab Technician ► Maintenance and Instrument Technician ► Process Technician ► Quality Assurance Technician ► Quality Control Technician	
	10	English Literature	Geometry	Chemistry	Modern Europe	Foreign Language Molecular Biology Health	Human Systems Health Occupations 2		
	11	Literature & Composition	Pre-Calculus	Advanced Biology	U.S. History Sociology	Foreign Language Anatomy&Physiology Health	Medical Interventions Health Occupations 3		
College Placement Assessments-Academic/Career Advisement Provided									
12	AP English	Algebra II Statistics	Physics	World Issues Psychology	Foreign Language Health	Biomedical Technology Research and Development Health Occupations 4			
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition	Intermediate Algebra	Chemistry	American Government Psychology	Biomedical Ethics Lab Information Systems	Health Science V: Biotechnology Research and Development Preparation	Occupations Requiring Baccalaureate Degree ► Biochemist ► Bioinformatics Associate ► Bioinformatics Scientist ► Bioinformatics Specialist ► Biomedical Chemist ► Biostatistician ► Cell Biologist ► Clinical Trials Research Associate ► Clinical Trials Research Coordinator ► Geneticist ► Microbiologist ► Molecular Biologist ► Pharmaceutical Scientist ► Regulatory Affairs Specialist ► Research Assistant ► Research Associate ► Research Scientist ► Toxicologist	
	Year 14	Speech/Oral Communication Technical Writing	Biomedical Statistics	BioScience Microbiology	Western Traditions Sociology	Bioinformatics	Continue Courses in Area of Specialization		
	Year 15			Biochemistry		Research Methods	Continue Courses in Area of Specialization		
	Year 16			Biochemistry 2			Complete Biotechnology Research and Development Major (4-Year Degree Program)		

