$\mathbf{P}_{\mathbf{Q}}$	WCCOTO Can	nter for Institution	al									
COMMUN	ITY COLLEGE Effe	nter for Institution ectiveness	iai									
				AS.NSM.BIO.TE	CH Progran	n Alignment	Matrix					
	+			7.0	I	T	I				Program Learning Goal 1	Program Learning Goal 2
Course	+	GE1 Written and	GE2 Quantitative Knowledge and	GE3 Scientific Knowledge and	GE4 Technological	GE5 Society and Human	GE6 Humanistic	GE7 Historical	GE8 Global and	GE9 Ethical	Students will be knowledgeable	Students will acquire the skills
		Oral Communication Students will communicate effectively in both speech and writing.	Skills Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems.	Reasoning Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.	Competency or Information Literacy Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.	Behavior Student will use social science theories and concepts to analyze human behavior and social and political institutions and to act as responsible citizens	Perspective Students will analyze works in the fields of art, music, or theater; history; literature; and philosophy and/or religious studies; and will gain competence in	Perspective Students will understand historical events and movements in World, Western, non- Western or American societies and assess their subsequent significance.	Cultural Awareness Students will understand the importance of a global perspective and culturally diverse peoples.	Reasoning and Action Students will understand ethical issues and situations.	in the methodology of biotechnology including genetic modification, isolation, purification, and analysis of nucleic acids and proteins.	necessary to properly handle genetically modified organisms and employ the safeguards necessary when working with such organisms.
							the use of a foreign					
Bio-101	Aligned?(Write' yes' if aligned)			yes								
	Means of Assessment:			Students will be evaluated by lecture and laboratory examinations and student projects.								
Bio- 203	Aligned?		yes	yes								
	Means of Assessment:		Students will be evaluated by lecture and laboratory examinations and laboratory reports.	Students will be evaluated by lecture and laboratory examinations and laboratory reports.								
Bio-210	Aligned?		yes	yes	yes						yes	yes
	Means of Assessment:		Students will be evaluated by lecture and laboratory examinations or laboratory reports.	Students will be evaluated by lecture and laboratory examinations and laboratory reports.	Students will be evaluated by lecture and laboratory examinations and student projects.						Students will be evaluated by observation in the laboratory and analysis of experimental results. Assessment will also be based upon performance on exam questions.	Students will be evaluated by observation in the laboratory and analysis of experimental results. Assessment will also be based upon performance on exam questions.
Bio-211	Aligned?		yes	yes	yes						yes	
	Means of Assessment:		Students will be evaluated by lecture and laboratory examinations or laboratory reports.	Students will be evaluated by lecture and laboratory examinations and laboratory reports.	Students will be evaluated by lecture and laboratory examinations and student projects.						Students will be evaluated by observation in the laboratory and analysis of experimental results. Assessment will also be based upon performance on exam questions.	
	Aligned?										duestions.	
	Means of Assessment:											
	Aligned?											
	Means of Assessment:											
	Aligned?											
		1	<u> </u>					1		1		<u> </u>

	Means of							
	Assessment:							
	Aligned?							
	Means of							
	Assessment:							
	Assessment							
	Aligned?							
	Means of							
	Assessment:							
]						
]						
]						
	Aligned?							
	Means of							
	Assessment:							
-	Aligned?	1						
	Means of	1						
	Assessment:							
	Assessment							
	Aligned?							
	Means of							
	Assessment:							
	Aligned?							
	Means of							
—	Assessment:							
	Aligned?							
	Means of]						
-	Assessment: Aligned?	1						
	Means of							
	Assessment:							
	Aligned?							
	Means of	1						
	Assessment:	<u> </u>	<u> </u>					 <u> </u>
	Aligned? Means of							
	Means of							
	Assessment:							
	Aligned?							
	Means of						 -	
	Assessment: Aligned? Means of							
	Aligned?							
	Means of							
	Assessment: Aligned?	1						
	Aligned?							
	Means of							
-	Assessment:							
	Aligned? Means of							
	Means of Assessment:]						
1	Assessment:	l .	l .	l	l	l		

							1	1	
Program Learning Goal 3	Program Learning Goal 4	Program Learning Goal 5	Program Learning Goal 6						
		Students will acquire laboratory	Students will have the ability to	Service Course for					
of a variety of currently	required to analyze biological	competence by developing and	critically examine information	Other					
available genomic and		refining technical and analytical	and discover new knowledge	Discipline/Program					
proteomic databases.	results of their analyses.	skills	through rigorous scientific reasoning						
			reasoning						
		yes	yes						
		·	·						
		Students will be evaluated by	Students will be evaluated by	no					
		laboratory observation,	laboratory observation,						
		laboratory exams or lab reports.	laboratory exams or lab reports.						
		yes	100						
		yes	yes						
		1			 	 			
		Based on student performance	Based on student performance	no					
		on laboratory reports, laboratory	on laboratory reports, and class						
		quizzes and class participation.	participation.						
yes	yes	yes	yes						
		Students will be evaluated by	Students will be evaluated by						
Assessment will be based upon	Assessment will be based upon	observation in the laboratory and	observation in the laboratory and	no					
performance on computer	performance on computer	analysis of experimental results.	analysis of experimental results.						
assignments and exam questions.	assignments and exam questions.	Assessment will also be based upon performance on exam	Assessment will also be based upon performance on exam						
questions		questions.	questions.						
yes	yes	yes	yes						
		Students will be evaluated by	Students will be evaluated by	1					
Assessment will be based upon	Assessment will be based upon	observation in the laboratory and		no					
performance on computer assignments and exam	performance on computer	analysis of experimental results. Assessment will also be based	analysis of experimental results. Assessment will also be based						
questions.	assignments and exam questions.	upon performance on exam	upon performance on exam						
		auestions.	auestions.						
ļ		ļ							
		1							
		1							
		1							
		1							
		1							
		1							
 		+							
		1							

			1				
							1
							
							i l
							l l
							1
							1
							ļ
			1				
							<u> </u>
			1				
			1				
			-				
	·	 					
L			1				

_		
_		
_		
_		
_		