

COMPONENTE CURRICULAR	ÁREA DE FORMACIÓN	TECNOLOGÍA EN MANTENIMIENTO DE EQUIPO BIOMÉDICO										INGENIERÍA BIOMÉDICA									
		I		II		III		IV		V		VI		VII		VIII		IX		X	
HUMANÍSTICO	HUMANÍSTICO	H2111 Cálculo Reformada CRED HAD HI HT 0 2 0 2								H2128 Electiva Interdisciplinar I CRED HAD HI HT 3 3 6 9		H2124 Constitución Política CRED HAD HI HT 2 2 4 6				H2122 Electiva Interdisciplinar II CRED HAD HI HT 3 3 6 9					
		H3121 Competencias Comunicativas CRED HAD HI HT 2 2 4 6										H3121 Contexto Cultural, Globalización y Cambio Social CRED HAD HI HT 2 2 4 6		H3127 Ética CRED HAD HI HT 2 2 4 6				H3127 Modelo Ambiente y Desarrollo CRED HAD HI HT 2 2 4 6			
FORMACIÓN DISCIPLINAR	BÁSICA	13001 Cálculo Diferencial CRED HAD HI HT 3 3 6 9		13003 13001 Cálculo Integral CRED HAD HI HT 3 3 6 9		B3113 13003 Cálculo Vectorial CRED HAD HI HT 3 3 6 9															
		B3121 Química General* CRED HAD HI HT 3 4 5 9		B3123 B3121 Bioquímica* CRED HAD HI HT 3 4 5 9		B3123 B3123 Biología Celular y Molecular* CRED HAD HI HT 3 4 5 9		20001 B3123 Anatomía* CRED HAD HI HT 3 4 5 9		20002 B3123 Fisiología* CRED HAD HI HT 3 4 5 9											
		B3131 Física Médica* CRED HAD HI HT 3 4 5 9		20002 B3131 Física Eléctrica* CRED HAD HI HT 3 4 5 9		C3133 B3131 Física Ondulatória* CRED HAD HI HT 3 4 5 9		20003 B3133 Botánica* CRED HAD HI HT 3 4 5 9													
	20001 Fundamentos Algorítmicos CRED HAD HI HT 2 2 4 6		B3142 13001 Álgebra Lineal CRED HAD HI HT 3 3 6 9				C3146 B3113 Ecuaciones Diferenciales** CRED HAD HI HT 3 3 6 9														
FORMACIÓN CIENTÍFICA E INVESTIGATIVA	PROCESOS INVESTIGATIVOS							B3143 13001 Estadística Descriptiva CRED HAD HI HT 2 2 4 6		B3144 B3143 Estadística Inferencial** CRED HAD HI HT 2 2 4 6		20011 Investigación Científica CRED HAD HI HT 2 2 4 6				H3142 20011 Formulación y Evaluación de Proyectos CRED HAD HI HT 2 2 4 6		10005 Proyecto de Grado I CRED HAD HI HT 3 3 6 9		10006 10005 Proyecto de Grado II CRED HAD HI HT 3 3 6 9	
PROFUNDIZACIÓN Y ENFASIS PROFESIONAL	BIOMEDICINA													20013 20005 10005 Biomatrustación* CRED HAD HI HT 3 4 5 9		20015 20009 Procesamiento de Señales e Imágenes Médicas* CRED HAD HI HT 3 4 5 9		P3163 P3161 Diseño Biomédico* CRED HAD HI HT 3 3 6 9			
		20016 Introducción a la Tecnología Biomédica CRED HAD HI HT 2 2 4 6				20004 Fundamentos de Equipos Biomédicos CRED HAD HI HT 2 2 4 6		P3156 20004 Mantenimiento de Equipos Biomédicos* CRED HAD HI HT 3 4 5 9		P3163 P3166 Metrología Biomédica CRED HAD HI HT 2 2 4 6		P3156 P3159 Aseguramiento Metodológico Biomédico* CRED HAD HI HT 3 4 5 9		P3163 B3121 Biomatrustación* CRED HAD HI HT 3 4 5 9		P3161 P3163 Biométrica* CRED HAD HI HT 3 4 5 9		P3164 P3161 Ingeniería de Rehabilitación CRED HAD HI HT 3 3 6 9			
	INGENIERÍA CLÍNICA Y GESTIÓN HOSPITALARIA										20017 Legislación en Salud CRED HAD HI HT 3 3 6 9		P3161 20016 Infraestructura Hospitalaria CRED HAD HI HT 3 3 6 9		P3161 P3161 Gestión Tecnológica Hospitalaria CRED HAD HI HT 3 3 6 9		C3156 P3161 Gestión de la Calidad en Salud CRED HAD HI HT 3 3 4 6				
FORMACIÓN PROFESIONAL	ELECTRÓNICA			20003 13001 Circuitos Eléctricos* CRED HAD HI HT 3 4 5 9		20005 20003 Electrónica Analógica* CRED HAD HI HT 3 4 5 9		20006 20005 Electrónica Digital* CRED HAD HI HT 3 4 5 9		20010 20006 Señales y Sistemas** CRED HAD HI HT 3 3 6 9				20012 *** Práctica Profesional CRED HAD HI HT 12 0 36 36							
	ELECTIVAS TECNOLÓGICAS Y PROFESIONALES							P3165 Electiva Tecnológica I CRED HAD HI HT 3 3 6 9		P3167 Electiva Tecnológica II CRED HAD HI HT 3 3 6 9				P3161 Electiva Profesional I CRED HAD HI HT 3 3 6 9		P3163 Electiva Profesional II CRED HAD HI HT 3 3 6 9		P3161 Electiva Profesional III CRED HAD HI HT 3 3 6 9			
		CRED HAD HI HT 10 10 20 40		CRED HAD HI HT 17 20 31 51		CRED HAD HI HT 14 17 25 42		CRED HAD HI HT 17 21 30 51		CRED HAD HI HT 16 19 28 48		CRED HAD HI HT 14 17 26 43		CRED HAD HI HT 14 17 26 43		CRED HAD HI HT 17 19 32 51		CRED HAD HI HT 14 16 27 43		CRED HAD HI HT 15 20 35 55	
		7		6		5		6		5		6		2		6		5		5	
		*Asignatura teórico-práctica ** Asignatura de componente productivo *** Prácticas de laboratorio profesional, todas las asignaturas aprobadas hasta VI semestre incluyendo esta.																			
				COMPONENTES CURRICULARES HUMANÍSTICO 16 FORMACIÓN DISCIPLINAR 46 FORMACIÓN CIENTÍFICA E INVESTIGATIVA 14 PROFUNDIZACIÓN Y ENFASIS PROFESIONAL 40 FORMACIÓN PROFESIONAL 39 TOTAL CREDITOS 155																	
								Código Pre-Req.		Nivel Tecnológico Semestral Período Académico		CRED HAD HI HT 107 111 218 293 197 176 349 516				Nivel Profesional Semestral Período Académico		CRED HAD HI HT 48 53 91 144 48 54 95 154		Tecnológico-profesional CRED HAD HI HT 102 116 204 267 105 124 224 312	

ELECTIVAS CICLO TECNOLÓGICO

Electiva tecnológica I

E3705			
Programación Orientada a Objetos			
CRED	HAD	HI	HT
3	3	6	9

E3706			
Gestión de Residuos Hospitalarios			
CRED	HAD	HI	HT
3	3	6	9

Electiva tecnológica II

E3707			
Sistemas Embebidos			
CRED	HAD	HI	HT
3	3	6	9

E3708			
Controles Automáticos			
CRED	HAD	HI	HT
3	3	6	9

ELECTIVAS CICLO PROFESIONAL

Electiva profesional I

E3807			
Mediciones Biomédicas de Presión, Volumen y Flujo			
CRED	HAD	HI	HT
3	3	6	9

E3803			
Bioinformática			
CRED	HAD	HI	HT
3	3	6	9

Electiva profesional II

E3808			
Fisiopatología			
CRED	HAD	HI	HT
3	3	6	9

E3809			
Modelos Computacionales en Ingeniería Biomédica			
CRED	HAD	HI	HT
3	3	6	9

Electiva profesional III

E3805			
Telemedicina			
CRED	HAD	HI	HT
3	3	6	9

E3806			
Innovación en Ingeniería Biomédica			
CRED	HAD	HI	HT
3	3	6	9

ELECTIVAS INTERDISCIPLINARES

E3712			
Bioética			
CRED	HAD	HI	HT
3	3	6	9

Electiva interdisciplinar I y II

E3703			
Gestión del Recurso Humano			
CRED	HAD	HI	HT
3	3	6	9

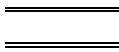
E3709		
Emprendimiento y C		
CRED	HAD	HI
3	3	6

E3710			
Psicología Clínica y de la Salud			
CRED	HAD	HI	HT
3	3	6	9

E3711		
Seguridad e Higien		
CRED	HAD	HI
3	3	6

E3810			
Economía Circular			
CRED	HAD	HI	HT
3	3	6	9

E3811		
Contabilidad Ge		
CRED	HAD	HI
3	3	6



Creatividad

HT
9



e Industrial

HT
9



eneral

HT
9

Componente Curricular	Área de Formación	Número de Asignaturas
Humanístico	Humanístico	8
Formación Disciplinar	Básica	12
	Básica de Ingeniería	4
Formación Científica e Investigativa	Procesos Investigativos	6
Formación Profesional	Electrónica	4
	Práctica Profesional	1
	Electivas Tecnológicas y Profesionales	5
Profundización y Énfasis Profesional	Metrología	5
	Bioinstrumentación	6
	Ingeniería Clínica y Gestión Hospitalaria	4
TOTAL		55

Porcentaje de Cursos (%)	Número de Créditos	Porcentaje de Créditos (%)
14.5	16	10.3
21.8	36	23.2
7.3	10	6.5
10.9	14	9.0
7.3	12	7.7
1.8	12	7.7
9.1	15	9.7
9.1	12	7.7
10.9	18	11.6
7.3	10	6.5
100	155	100