

Universidad Anáhuac México, North Campus
Biomedical Engineering - Program 2011
For students enrolled in the Fall semester

1	2	3	4	5	6	7	8	9
MAT 1202 Single-variable Calculus (10) No prereq.	MAT 2230 Multivariable Calculus (9) Req. MAT 1202	MAT 2231 Differential Equations (7) Req. MAT 1202	MAT 2219 Probability (7) No prereq.	SIS 2215 Object-oriented Languages (6) Req. SIS 2202	MAT 2227 Inferential Statistics (7) Req. MAT 2219	BIOI 2207 Biomechanics (6) Req. FIS 2202	Elective I (6)	Elective III (6)
MAT 1203 Advanced Mathematics (7) No prereq.	MAT 2232 Linear Algebra (9) No prereq.	FIS 2201 Electrical Circuits (9) Req: MAT 1202	QUI 2226 Thermodynamics (9) No prereq.	FIS 2204 Optics, Fluids and Waves (9) Req: MAT 2230	BIOI 2222 Digital Systems for Bioengineering I (6) Req: BIOI 2211	BIOI 2223 Digital Systems for Bioengineering II (6) Req: BIOI 2222	Elective II (6)	Elective IV (6)
QUI 1202 Materials Chemistry (7) No prereq.	FIS 2203 Statics (9) No prereq.	FIS 2202 Dynamics (9) Req: FIS 2203	MED 2216 Cell Physiology (6) Req: SLD 1202	SLD 2207 General Physiology (9) Req: SLD 1202	BIOI 2209 Dynamics and Control of Biomedical Systems (6) Req: MAT 2231	BIOI 2217* Hospital Infrastructure (3) No prereq.	BIOI 2213 Bioengineering Ethics (6) Req: HUM 2202	BIOI 2202** Bioinformatics (6) Req: BIOI 2216
SLD 1201 Anatomy No prereq.	SIS 2202 Algorithms and Programming (6) No prereq.	SLD 1203 Cell Biology (9) No prereq.	BIOI 2219 Computer Methods in Biomedical Engineering (6) Req: SIS 2202	BIOI 2203 Bioinstrumentation I (6) Req: FIS 2201	BIOI 2204 Bioinstrumentation II (6) Req: BIOI 2203	BIOI 2216 Medical Imaging (6) Req: BIOI 2221	BIOI 2214* Medical Physics (4) Req: BIOI 2204	BIOI 2208*** BioMEMS and BioNEMS (4) Reqs: BIOI2204/2206
SLD 1202 Biophysics (9) No prereq.	SLD 1204 Biochemistry (6) Req: QUI 1201	BIOI 2205 Biomaterials I (6) Req: QUI 1201	BIOI 2206 Biomaterials II (6) Req: BIOI 2205	BIOI 2211 Electronics for Bioengineering I (6) Req: FIS 2201	BIOI 2212 Electronics for Bioengineering II (6) Req: BIOI 2211	BIOI 2210 Design of Biomedical Systems (6) No prereq.	BIOI 2220 Orthopedics and Rehabilitation (6) Req: BIOI 2210	
BIOI 2218 Introduction to Bioengineering (3) No prereq.			BIOI 2201 Signals and Systems Analysis in Bioengineering (6) Req: MAT 2230		BIOI 2221 Digital Signal and Medical Image Processing (6) Req: BIOI 2201		BIOI 2215 Leadership Skills in Bioengineering (6) No prereq.	
HUM 1201 Introduction to University Studies (6) No prereq.	COM 1201 Communication Skills (6) No prereq.	HUM 2204 History of Ideas (6) Req: HUM 1201	HUM 2201 Basic Anthropology (6) Req: HUM 1201	HUM 2202 Ethics and Bioethics (6) Req: HUM 2201		HUM 2203 History of Western Civilization (6) Req: HUM 2204	HUM 2205 Person and Transcendence (6) Req: HUM 2202	FIL 2202 Social Responsibility (6) Req: HUM 1201
	General Studies Workshop I (3)	General Studies Workshop II (3)	General Studies Workshop III (3)	INT 3275 Practicum I: Bioengineering (6) Reqs: BIOI2218/2219	General Studies Workshop IV (3)	INT 3276 Practicum II: Bioengineering (6) Reqs: BIOI 2209 / FIS 2204	General Studies workshop V (3)	INT 3277 Practicum III: Bioengineering (6) Reqs: BIOI 2221 / 2223
48 Anahuac creds	51	46	49	48	40	39	43	34

47 Required Professional Courses
4 Elective Professional Courses
5 Elective General-studies Courses
8 Required General-studies Courses
64 Courses (total)

48	Humanities
120	Basic science
45	Health sciences
128	Engineering
18	Practicum
15	General studies
24	Professional electives
398	Total Anahuac credits

* BIOI 2214 / BIOI 2217: Blended courses
**BIOI-2202: Online course
*** BIOI 2208: Course offered in English

(In parentheses, number of Anahuac credits per course)