

Undergraduate Course in Biomedical Systems Technology Fatec Sorocaba

1st. Term	2nd. Term	3rd. Term	4th. Term	5th. Term	6th. Term
Introduction to Technical Design (2)	Circuits Analysis (4)	Electronic Elements (4)	Medical-Hospitalization Equipments Analysis (4)	Medical-Hospitalization Equipments Projects (4)	Medical-Hospitalization Equipments Building (4)
Cell Biology (4)	Introduction to Computer Aided Drawings (2)	Elements of Precision Mechanics II (4)	Medical Informatics (4)	Biomedical Systems Maintenance (4)	Automation Technology II (4)
General Chemistry (4)	Elements of Precision Mechanics I (2)	Materials Technology (2)	Biomedical Instrumentation (2)	Signals Processing (4)	Health and Safety at Work (2)
Electricity (4)	Biochemistry (4)	Microbiology (4)	Analog Systems (4)	Automation Technology I (2)	Undergraduate Project (2)
Physics Applied to Biomedical Systems I (4)	Physics Applied to Biomedical Systems II (2)	Human Anatomy Fundamentals (2)	Digital Systems (4)	Applied Microbiology (4)	Maintenance Management (4)
Calculus (4)	Differential and Integral Calculus I (4)	Technical Optics (2)	Production Technology (2)	Hematology (2)	Quality Management Fundamentals (2)
Portuguese Language I (2)	Portuguese Language II (2)	Differential and Integral Calculus II (4)	Human Physiology (4)	Biophysics (2)	
English Language I (2)	English Language II (2)	Basic Statistics (2)	Immunology Fundamentals (2)	Medical Physics (2)	
				Economy Fundamentals (2)	
Classes: Weekly - 26 Term - 520	Classes: Weekly - 24 Term - 480	Classes: Weekly - 24 Term - 480	Classes: Weekly - 26 Term - 520	Classes: Weekly - 26 Term - 520	Classes: Weekly - 18 Term - 360
Curricular Internship: 240 hours as of the 4th. Term			Undergraduate Major Work: 160 hours as of the 5th Term		

Basic Core Subjects			Professional Core Subjects		
	Classes	%		Classes	%
Portuguese Language Communication Skills	80	2.8	Biomedical Systems Major-Specific Subjects	440	15.3
Foreign Language Communication Skills (*)	80	2.8	Specific Subjects	800	27.8
Mathematics and Statistics	280	9.7	Management	120	4.2
Biological Sciences	440	15.3	Cross-studies (Multidisciplinary)	120	4.2
Chemistry	160	5.6			
Physics	320	11.1			
Administration and Economy	40	1.4			
Totals	1400	48.6	Totals	1480	51.4

COURSE LOAD SUMMARY:

2880 classes → 2400 hours (fulfills the CNCST under CEE-SP Resolution 86 of 2009 requirements and CPS internal policies) + (240 hours CNCST - National Catalogue of Higher-Education Technology Courses)