

Ming Chuan University School of Health Technology  
 “Biomedical Signal Processing Focused Course Program” Curriculum Framework  
 (6701\_109)

Implementing Unit: Biomedical Engineering Department  
 Passed at the Department Curriculum Committee Meeting and the Department  
 Affairs Committee Meeting on November 17, 2020

Course Type	Course Number	Course	Credits	Note
Required	BME : 67245(109) 67257(108,107,106) EE : 37101	Programming Design I	2	School of Health Technology BME, School of Information Technology EE
Required	BME : 67243 EE : 37222	Electronics I	3	SHT BME, SOIT EE
Required	BME : 67244 EE : 37223	Electronics II	3	SHT BME, SOIT EE
Required	BME : 67223 EE : 37208	Signals and Systems	3	SHT BME, SOIT EE
Elective	67246(109) 67258(108,107,106)	Programming Design II	2	SHT BME
Elective	67325(109,108) 67362(107,106)	Biostatistics	3	SHT BME
Elective	67361	Medical Electronics	3	SHT BME
Elective	67356	Digital System Design	3	SHT BME
Elective	67357	Biomedical Signal Processing	3	SHT BME
Elective	67461	Biosensor	3	SHT BME
Elective	67452	Medical Measurement and Instrumentation	3	SHT BME
Elective	37233	Probability and Statistics	3	SOIT EE
Elective	37224	Microprocessor Fundamentals and Laboratory	3	SOIT EE
Elective	EE062	Introduction to Digital Signal Processing	3	SOIT EE

Course Type	Course Number	Course	Credits	Note
Elective	37353	Electronic Circuit Design	3	SOIT EE
Elective	37355	FPGA/CPLD Design	3	SOIT EE
Elective	37377	Introduction to Digital Image Processing	3	SOIT EE
Elective	37462	Introduction to Computer Vision	3	SOIT EE
Elective	37456	Embedded Systems	3	SOIT EE

Requirements :

1. Students are required to complete 20 credits during the years allotted, including 11 credits from required subjects and 9 credits from elective subjects. At least 6 credits must be courses not in students' original department or department of minor.
2. Students who applied for this focused course program before the 2020-21 academic year may also use this curriculum as a standard.