Ming Chuan University Department of Biomedical Optoelectronics Focused Course Program Course Outline

Course		Credits	Hours	1st year Fall class	1st year Fall lab	1st year Spring class	1st year Spring lab	2nd year Fall class	2nd year Fall lab	2nd year Spring class	2nd year Spring lab	3rd year Fall class	3rd year Fall lab	3rd year Spring class	3rd year Spring lab	4th year Fall class	4th year Fall lab	4th year Spring class	4th year Spring lab	Note
Core Required Courses	Physics I	3	3	3																
	Physics II	3	3			3														
	Electronics I	3	3					3												
	Electronics II	3	3							3										
	Subtotal	12	12																	
Professional Required Courses	Electromagnetics I	3	3					3												EE
	Optics and Optical Design	3	3							3										EE
	Electromagnetics II	3	3							3										EE
	Electromagnetic Wave	3	3							3										EE
	Introduction to Semiconductor Devices	3	3									3								EE
	Modern Physics	3	3											3						EE
	Optoelectronic Devices	3	3											3						EE
	Semiconductor Optical	3	3															3		EE
	Biochemistry	3	3					3												BE
	Medical Instrument Quality Verification System	3	3					3												BE
	Digital System Design	3	3							3										BE
	Applied Mechanics	3	3									3								BE
	Medical Electronics	3	3									3								BE
	Biosensor	3	3											3						BE
	Medical Measurement and Instrumentation	3	3													3				BE
	Biomedical Signal Processing	3	3													3				BE
	Healthcare Photoelectric System	3	3															3		BE

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Elective Courses		Credits	Hours	1st year Fall		Spring		2nd year Fall		Spring		3rd year Fall		Spring		4th year Fall		Spring		Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Grand Total	Subtotal Required Course Credits	12																		
	Subtotal Professional Required Courses	9																		
	Total	21																		
NOTE	Attend the Biomedical Optoelectronics Focused Course Program must complete at least 21 credits in courses studied, which required 12 credits, 9 credits, take a minimum of 6 credits do not belong to students the Department and minor subjects.																			