



**FIRST YEAR**

**First Semester**

FG	Course No.	Course Title	Units
	ENG.111	Pre-Calculus Mathematics	4
	ENG.112	Calculus 1: Differential Calculus	3
	ENG.102	Chemistry for Engineers	6
	BME.111	Intro to Biomedical Engineering	3
	MATMOD	Mathematics in the Modern World	3
	FFP1	Freshman Formation Program	3
	NSTP1	NSTP	3
	PATHFIT 1	Movement Enhancement	2
		<b>Total</b>	<b>27</b>

**Second Semester**

FG	Course No.	Course Title	Units
	ENG.121	Calculus 2: Integral Calculus	3
	ENG.124	Mechanics & Strength of Materials	5
	BME.121	Human Biology	3
	UNDESELF	Understanding the Self	3
	SPIECO	Spirituality & Ecology in the Christian, Ignatian & Islamic Tradition	3
	PHIHIS	Readings in Philippine History	3
	FFP2	Freshman Formation Program/	3
	NSTP2	NSTP	3
	PATHFIT2	Fitness Exercise	2
		<b>Total</b>	<b>28</b>

**SUMMER**

FG	Course No.	Course Title	Units
	ENG.131	Computer-Aided Technologies	2
	ENG.031	Engineering Economics	3
	ENG.032	Engineering Data Analysis	3
		<b>Total</b>	<b>8</b>

**SECOND YEAR**

**First Semester**

FG	Course No.	Course Title	Units
	BME.211	Biomedical Device Design	3
	BME.212	Anatomy & Physiology for Engineers	6
	CPE.212	Fundamentals of Electrical Circuits	6
	ENG.211	Differential Equations	3
	SCITECS	Science, Technology & Society	3
	ARTAPP	Art Appreciation	3
	ACAD WRI	Academic Writing	3
	PATHFIT3	Dance/Sports/Rec&Games I	2
		<b>Total</b>	<b>29</b>

**Second Semester**

FG	Course No.	Course Title	Units
	BME.221	Electromagnetism & Thermal Physics	6
	CPE.021	Programming Logic and Design	6
	CPE.222	Fundamentals of Electronic Circuits	6
	GE ELECT-DA	Data Analytics	3
	PURCOM	Purposive Communication	3
	PHIHUM	Philosophy of the Human Person: Social & Political Dimensions	3
	VOCMIS	Vocation and Mission in the Christian, Ignatian & Islamic Traditions	3
	PATHFIT4	Dance/Sports/Rec & Games II	2
		<b>Total</b>	<b>32</b>

**SUMMER**

FG	Course No.	Course Title	Units
	BMECog1	Cognate Course 1 – Machine Learning	3
	ENG.234	Advance Engineering Math	3
	ENG.231	Occupational, Health and Safety Engineering	3
		<b>Total</b>	<b>9</b>

**THIRD YEAR**

**First Semester**

FG	Course No.	Course Title	Units
	BME.311	Biomedical Instrumentation 1	6
	BME.312	Intro to Biomedical Imaging & Applications	6
	CPE.313	Fundamentals of Mixed Signals & Sensors	6
	CPE.312	Logic Circuits and Design	6
	BME.313	Microprocessor and Microcontroller	6
	ETHICS	Ethics	3
		<b>Total</b>	<b>33</b>

**Second Semester**

FG	Course No.	Course Title	Units
	BME.321	Biomedical Instrumentation 2	3
	BME.322	Biomedical Signal Processing	6
	BME.323	Healthcare Technology Management	3
	BME.324	Biomaterials and Biocompatibility	3
	CPE.324	Embedded Systems	6
	ENG.322	Methods of Research	3
	CONWOR	Contemporary World	3
		<b>Total</b>	<b>27</b>

**SUMMER**

FG	Course No.	Course Title	Units
	ENG.331	Field Placement and Report (Immersion and OJT 300 hours)	3
	BME.332	Practical Skills Course 1: Biomedical Device Troubleshooting and Maintenance	3
		<b>Total</b>	<b>6</b>

**FOURTH YEAR**

**First Semester**

FG	Course No.	Course Title	Units
	BME.411	BME Practice and Design 1	3
	CPE.412	Digital Signal Processing	6
	BME.412	Practical Skills Course 2: Medical Manufacturing and Design	3
	BMECog2	Cognate Course 2 - Digital Communications	3
	RIZAL	Life and Works of Rizal	3
		<b>Total</b>	<b>18</b>

**Second Semester**

FG	Course No.	Course Title	Units
	BME.421	BME Practice and Design 2	3
	ENG.421	Seminars and Colloquium	3
	GE ELECT-LM	Literatures of Mindanao	3
		<b>Total</b>	<b>9</b>