

CENTRO ESCOLAR UNIVERSITY

Manila

School of Science and Technology

FOUR-YEAR PROGRAM LEADING TO THE DEGREE

**BACHELOR OF SCIENCE IN COSMETIC SCIENCE**

(For STEM Graduates)

Effective School Year 2020-2021

**FIRST YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCT120	History & Development of Cosmetic Science	2	0	0	2	2	0	0	2	NONE
PCBO101	General Botany	3	2	0	5	3	6	0	9	NONE
PCCH103	Organic Chemistry	3	2	0	5	3	6	0	9	NONE
COMA11	Mathematics in the Modern World	3	0	0	3	3	0	0	3	NONE
COPY11	Understanding the Self	3	0	0	3	3	0	0	3	NONE
<b>COPE21</b>	<b>PATH-FIT 1: Movement Competency Training</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>NONE</b>
COSH11	Empowering the Self	2	0	0	2	2	0	0	2	NONE
COSH21	Religion: History and Texts	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>21</b>	<b>4</b>	<b>0</b>	<b>25</b>	<b>21</b>	<b>12</b>	<b>0</b>	<b>33</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCT121	Macromolecular Chemistry	3	0	0	3	3	0	0	3	PCCH103
PCCH104	Biochemistry	3	2	0	5	3	6	0	9	PCCH103
PCZO101	General Zoology	3	2	0	5	3	6	0	9	NONE
COLA11	Purposive Communication	3	0	0	3	3	0	0	3	NONE
COLA31	Foreign Language 1	3	0	0	3	3	0	0	3	NONE
COSH31	Art Appreciation	3	0	0	3	3	0	0	3	NONE
COSH41	Readings in Philippine History	3	0	0	3	3	0	0	3	NONE
<b>COPE22</b>	<b>PATH-FIT 2: Swimming/Recreation</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>NONE</b>
<b>TOTAL</b>		<b>23</b>	<b>4</b>	<b>0</b>	<b>27</b>	<b>23</b>	<b>12</b>	<b>0</b>	<b>35</b>	

**SECOND YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCT122	Sensory Evaluation	2	2	0	4	2	6	0	8	PCCH103
PRCT130	Skin Biology	2	1	0	3	2	3	0	5	PCZO101
PCBI102	Human Anatomy and Physiology	3	2	0	5	3	6	0	9	PCZO101
PCCH105	Analytical Chemistry	3	2	0	5	3	6	0	9	NONE
PCMA101	Biostatistics	3	0	0	3	3	0	0	3	PCBO101, PCZO101
COLA32	Foreign Language 2	3	0	0	3	3	0	0	3	COLA31
<b>COPE23</b>	<b>PATH-FIT 3: Dance/Individual-Dual Sports</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>NONE</b>
CONP11	NSTP 1	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>21</b>	<b>7</b>	<b>0</b>	<b>28</b>	<b>21</b>	<b>21</b>	<b>0</b>	<b>42</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBI170	General Microbiology	3	2	0	5	3	6	0	9	PCBO101, PCZO101
PRCT123	Product Formulation with Evaluation 1 (Skin & Hair Care Products)	1	2	0	3	1	6	0	7	PCCH104, PRCT122, PCCH105, PCBI102
PRCT127	Physicochemistry of Cosmetics and Toiletries	3	2	0	5	3	6	0	9	PCCH103, PCCH105
COSH32	Ethics	3	0	0	3	3	0	0	3	NONE
COSH42	The Contemporary World	3	0	0	3	3	0	0	3	NONE
<b>COPE24</b>	<b>PATH-FIT 4: Team Sports/Games</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>NONE</b>
CONP12	NSTP 2	3	0	0	3	3	0	0	3	CONP11
<b>TOTAL</b>		<b>18</b>	<b>6</b>	<b>0</b>	<b>24</b>	<b>18</b>	<b>18</b>	<b>0</b>	<b>36</b>	

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**THIRD YEAR**  
**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBI160	Genetics	3	2	0	5	3	6	0	9	PCBO101, PCZO101, PCMA101
PRCT124	Product Formulation with Evaluation 2 (Toiletries and Household Products)	1	2	0	3	1	6	0	7	PRCT123, PRBI170
PRCT126	Color Cosmetics	2	1	0	3	2	3	0	5	PCCH103
PCBA102	Principles of Accounting	3	0	0	3	3	0	0	3	NONE
PCCE102	Health Information System	2	1	0	3	2	3	0	5	NONE
COLA51	Expository Writing for Global Communication	3	0	0	3	3	0	0	3	NONE
COSH43	The Life and Works of Rizal	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>17</b>	<b>6</b>	<b>0</b>	<b>23</b>	<b>17</b>	<b>18</b>	<b>0</b>	<b>35</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBA161	Entrepreneurial Management	3	0	0	3	3	0	0	3	PCBA102
PRCT125	Product Formulation with Evaluation 3 (Fragrances)	1	2	0	3	1	6	0	7	PRCT124
PRCT128	Toxicology and Safety of Cosmetics and Toiletries	3	0	0	3	3	0	0	3	PCCH104, PCB1102, PRBI170
PRCT129	Instrumental Methods and Quality Assurance	3	2	0	5	3	6	0	9	PCCH105
PRCT181	Special Topics/Seminar in Cosmetic Science	3	0	0	3	3	0	0	3	PRCT124
CONS21	Science, Technology and Society	3	0	0	3	3	0	0	3	NONE
COSH22	Man, Church and Society	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>19</b>	<b>4</b>	<b>0</b>	<b>23</b>	<b>19</b>	<b>12</b>	<b>0</b>	<b>31</b>	

**FOURTH YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCT150	Laws, Regulations and Ethics in Cosmetics and Toiletries	3	0	0	3	3	0	0	3	PRCT125
PRCT183	Practicum - 300 hrs. (total)	-	-	6	6	3	0	17	20	All Prof Core & Prof Major Courses in 1 <sup>st</sup> to 3 <sup>rd</sup> year
PRCT191	Undergraduate Research 1	1	2	0	3	1	6	0	7	All Prof Core & Prof Major Courses in 1 <sup>st</sup> to 3 <sup>rd</sup> year
COCE51	Internet of Things	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>7</b>	<b>2</b>	<b>6</b>	<b>15</b>	<b>10</b>	<b>6</b>	<b>17</b>	<b>33</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCT161	Operations Management in Cosmetic and Toiletry Industry	3	0	0	3	3	0	0	3	PRCT150
PRCT192	Undergraduate Research 2	2	1	0	3	2	3	0	5	PRCT191
COLA21	Malikhaing Komunikasyon Gamit ang Panitikang Popular	3	0	0	3	3	0	0	3	NONE
COSH12	Living and Loving Relationships	2	0	0	2	2	0	0	2	COSH11
<b>TOTAL</b>		<b>10</b>	<b>1</b>	<b>0</b>	<b>11</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>13</b>	

Total No. of Units:

176

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**BACHELOR OF SCIENCE IN COSMETIC SCIENCE**  
(For Non-STEM Graduates)  
Effective School Year 2020-2021

**FIRST YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCT120	History & Development of Cosmetic Science	2	0	0	2	2	0	0	2	NONE
PCBO101	General Botany	3	2	0	5	3	6	0	9	NONE
PCCH100	Inorganic Chemistry	2	1	0	3	2	3	0	5	NONE
COMA11	Mathematics in the Modern World	3	0	0	3	3	0	0	3	NONE
COPY11	Understanding the Self	3	0	0	3	3	0	0	3	NONE
COPE21	<b>PATH-FIT 1: Movement Competency Training</b>	2	0	0	2	2	0	0	2	NONE
COSH11	Empowering the Self	2	0	0	2	2	0	0	2	NONE
COSH21	Religion: History and Texts	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>20</b>	<b>3</b>	<b>0</b>	<b>23</b>	<b>20</b>	<b>9</b>	<b>0</b>	<b>29</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PCCH103	Organic Chemistry	3	2	0	5	3	6	0	9	PCCH100
PCZO101	General Zoology	3	2	0	5	3	6	0	9	NONE
COLA11	Purposive Communication	3	0	0	3	3	0	0	3	NONE
COLA31	Foreign Language 1	3	0	0	3	3	0	0	3	NONE
COSH31	Arts Appreciation	3	0	0	3	3	0	0	3	NONE
COSH41	Readings in Philippine History	3	0	0	3	3	0	0	3	NONE
COPE22	<b>PATH-FIT 2: Swimming/Recreation</b>	2	0	0	2	2	0	0	2	NONE
<b>TOTAL</b>		<b>20</b>	<b>4</b>	<b>0</b>	<b>24</b>	<b>20</b>	<b>12</b>	<b>0</b>	<b>32</b>	

**Summer**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PCCH104	Biochemistry	3	2	0	5	3	6	0	9	PCCH103
<b>TOTAL</b>		<b>3</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>9</b>	

**SECOND YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCT122	Sensory Evaluation	2	2	0	4	2	6	0	8	PCCH103
PRCT130	Skin Biology	2	1	0	3	2	3	0	5	PCZO101
PCBI102	Human Anatomy and Physiology	3	2	0	5	3	6	0	9	PCZO101
PCCH105	Analytical Chemistry	3	2	0	5	3	6	0	9	NONE
PCMA101	Biostatistics	3	0	0	3	3	0	0	3	PCBO101, PCZO101
COLA32	Foreign Language 2	3	0	0	3	3	0	0	3	COLA31
COPE23	<b>PATH-FIT 3: Dance/Individual-Dual Sports</b>	2	0	0	2	2	0	0	2	NONE
CONP11	NSTP 1	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>21</b>	<b>7</b>	<b>0</b>	<b>28</b>	<b>21</b>	<b>21</b>	<b>0</b>	<b>42</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBI170	General Microbiology	3	2	0	5	3	6	0	9	PCBO101, PCZO101
PRCT121	Macromolecular Chemistry	3	0	0	3	3	0	0	3	PCCH103
PRCT123	Product Formulation with Evaluation 1 (Skin & Hair Care Products)	1	2	0	3	1	6	0	7	PCCH104, PRCT122, PCCH105, PCBI102
PRCT127	Physicochemistry of Cosmetics and Toiletries	3	2	0	5	3	6	0	9	PCCH103, PCCH105
COSH32	Ethics	3	0	0	3	3	0	0	3	NONE
COSH42	The Contemporary World	3	0	0	3	3	0	0	3	NONE
COPE24	<b>PATH-FIT 4: Team Sports/Games</b>	2	0	0	2	2	0	0	2	NONE
CONP12	NSTP 2	3	0	0	3	3	0	0	3	CONP11
<b>TOTAL</b>		<b>21</b>	<b>6</b>	<b>0</b>	<b>27</b>	<b>21</b>	<b>18</b>	<b>0</b>	<b>39</b>	

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**THIRD YEAR**  
**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBI160	Genetics	3	2	0	5	3	6	0	9	PCBO101, PCZO101, PCMA101
PRCT124	Product Formulation with Evaluation 2 (Toiletries and Household Products)	1	2	0	3	1	6	0	7	PRCT123, PRBI170
PRCT126	Color Cosmetics	2	1	0	3	2	3	0	5	PCCH103
PCBA102	Principles of Accounting	3	0	0	3	3	0	0	3	NONE
PCCE 102	Health Information System	2	1	0	3	2	3	0	5	NONE
COLA51	Expository Writing for Global Communication	3	0	0	3	3	0	0	3	NONE
COSH43	The Life and Works of Rizal	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>17</b>	<b>6</b>	<b>0</b>	<b>23</b>	<b>17</b>	<b>18</b>	<b>0</b>	<b>35</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBA161	Entrepreneurial Management	3	0	0	3	3	0	0	3	PCBA102
PRCT125	Product Formulation with Evaluation 3 (Fragrances)	1	2	0	3	1	6	0	7	PRCT124
PRCT128	Toxicology and Safety of Cosmetics and Toiletries	3	0	0	3	3	0	0	3	PCCH104, PCBII02, PRBI170
PRCT129	Instrumental Methods and Quality Assurance	3	2	0	5	3	6	0	9	PCCH105
PRCT181	Special Topics/Seminar in Cosmetic Science	3	0	0	3	3	0	0	3	PRCT124
CONS21	Science, Technology and Society	3	0	0	3	3	0	0	3	NONE
COSH22	Man, Church and Society	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>19</b>	<b>4</b>	<b>0</b>	<b>23</b>	<b>19</b>	<b>12</b>	<b>0</b>	<b>31</b>	

**FOURTH YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCT150	Laws, Regulations and Ethics in Cosmetics and Toiletries	3	0	0	3	3	0	0	3	PRCT125
PRCT183	Practicum - 300 hrs. (total)	-	-	6	6	3	0	17	20	All Prof Core & Prof Major Courses in 1 <sup>st</sup> to 3 <sup>rd</sup> year
PRCT191	Undergraduate Research 1	1	2	0	3	1	6	0	7	All Prof Core & Prof Major Courses in 1 <sup>st</sup> to 3 <sup>rd</sup> year
COCE51	Internet of Things	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>7</b>	<b>2</b>	<b>6</b>	<b>15</b>	<b>10</b>	<b>6</b>	<b>17</b>	<b>33</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCT161	Operations Management in Cosmetic and Toiletry Industry	3	0	0	3	3	0	0	3	PRCT150
PRCT192	Undergraduate Research 2	2	1	0	3	2	3	0	5	PRCT191
COLA21	Malikhaing Komunikasyon Gamit ang Panitikang Popular	3	0	0	3	3	0	0	3	NONE
COSH12	Living and Loving Relationships	2	0	0	2	2	0	0	2	COSH11
<b>TOTAL</b>		<b>10</b>	<b>1</b>	<b>0</b>	<b>11</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>13</b>	

Total No. of Units: **179**

*Jhon Garcia*