

	EASTERN VISAYAS STATE UNIVERSITY		
	Tacloban City		
	Title of Form: Curriculum Checklist	Control No.	EVSU-ACA-F-006
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COLLEGE OF ARTS AND SCIENCES

Curriculum Checklist

BACHELOR OF SCIENCE IN CHEMISTRY

Effective First Semester, AY 2021-2022

FIRST YEAR | First Semester

GRADE			COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES
					LEC	LAB		
			Chem 115	Principles of Chemistry ^{CC} (Lec & Lab)	3	6	5	High School Chemistry
			BChem	General Chemistry ^{BC}	3	0	(3)	None
			BMath	Spherical Trigonometry & Solid Mensuration ^{BC}	3	0	(3)	High School Math
			Gen Ed 003	Readings in Philippine History ^{GE}	3	0	3	None
			Gen Ed 008	Science, Technology and Society ^{GE}	3	0	3	None
			PE 112	Movement Competency Training ^{PE}	2	0	2	None
			NSTP 1	CWTS/LTS/MTS (Naval or Air Force)	3	0	(3)	None
				TOTAL	20	6	22	

Evaluated by: _____
Enrolling Teacher/ Academic Adviser

FIRST YEAR | Second Semester

GRADE			COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES
					LEC	LAB		
			Chem 123	Inorganic Chemistry 1 ^{CC} (Lec & Lab)	2	3	3	Chem 115
			Phys 124	Physics 1 ^{AC} (Mechanics, Heat and Sound)	3	3	4	High School Physics
			Math 123	Math Analysis 1 ^{AC} (Differential Calculus)	3	0	3	High School Math
			Gen Ed 002	Understanding the Self ^{GE}	3	0	3	None
			Rizal 001	Rizal's Life and Works ^{GE}	3	0	3	None
			PE 122	Exercise-based Fitness Activities ^{PE}	2	0	2	None
			NSTP 2	CWTS/LTS/MTS (Naval or Air Force)	3	0	(3)	None
				TOTAL	19	6	21	

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SECOND YEAR | First Semester

GRADE			COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES
					LEC	LAB		
			Chem 215	Analytical Chemistry 1 ^{CC} (Lec & Lab)	3	6	5	Chem 123
			Chem 235	Organic Chemistry 1 ^{CC} (Lec & Lab)	3	6	5	Chem 115
			Phys 214	Physics 2 ^{AC} (Electricity and Magnetism)	3	3	4	Phys 124
			Math 213	Math Analysis 2 ^{AC} (Integral Calculus with DE)	3	0	3	Math 123
			Gen Ed 006	Ethics ^{GE}	3	0	3	None
			PE 212	Dance, Sports, and Group Exercises ^{PE}	2	0	2	None
				TOTAL	17	15	22	

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SECOND YEAR | Second Semester

GRADE			COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES
					LEC	LAB		
			Chem 225	Analytical Chemistry 2 ^{CC} (Lec & Lab)	3	6	5	Chem 215 & 235
			Chem 245	Organic Chemistry 2 ^{CC} (Lec & Lab)	3	6	5	Chem 235
			Chem 224	Physical Chemistry 1 ^{CC} (Lec & Lab)	3	3	4	Chem 215 & 235, Math 213
			Gen Ed 005	Art Appreciation ^{GE}	3	0	3	None
			Gen Ed E11	GE Elective 1 ^{GEE}	3	0	3	None
			PE 222	Outdoor & Adventure Activities ^{PE}	2	0	2	None
				TOTAL	17	15	22	

THIRD YEAR | First Semester

GRADE			COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES
					LEC	LAB		
			Chem 314	Analytical Chemistry 3 ^{CC} (Lec & Lab)	3	3	4	Chem 225 & 235
			Chem 315	Biochemistry 1 ^{CC} (Lec & Lab)	3	6	5	Chem 225 & 245
			Chem 334	Physical Chemistry 2 ^{CC} (Lec & Lab)	3	3	4	Chem 224
			Chem 313	Effective Science Communication ^{ACC}	3	0	3	3 rd year standing
			Gen Ed 001	Purposive Communication	3	0	3	None
				Total	15	12	19	

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THIRD YEAR | Second Semester

GRADE			COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES
					LEC	LAB		
			Chem 324	Physical Chemistry 3 ^{CC}	3	0	3	Chem 334
			Chem 323	Biochemistry 2 ^{CC}	3	0	3	Chem 315
			Thesis 1	Chemical Research 1 ^{RES}	2	3	3	3 rd year standing
			Gen Ed 007	The Contemporary World ^{GE}	3	0	3	None
			Gen Ed EI2	GE Elective 2 ^{GEE}	3	0	3	None
				Total	14	3	15	

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THIRD YEAR | Mid-Year

GRADE			COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES
					LEC	LAB		
			Chem 333	Professional Engagement/OJT	0	9	3	All Major Subjects
				Total	0	9	3	

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FOURTH YEAR | First Semester

GRADE			COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES
					LEC	LAB		
			Chem 413	Inorganic Chemistry 2 ^{CC}	3	0	3	Chem 123
			Thesis 2	Chemical Research 2 ^{RES}	0	6	2	Thesis 1
			Chem EL1	Chemistry Elective 1 ^{CE}	3	0	3	4 th year standing
			Chem 433	Chemistry Correlation 1 ^{ACC}	3	0	3	4 th year standing
			Gen Ed 004	Mathematics in the Modern World ^{GE}	3	0	3	None
				Total	12	6	14	

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FOURTH YEAR | Second Semester

GRADE			COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES
					LEC	LAB		
			Thesis 3	Chemical Research 3 ^{RES}	2	3	3	Thesis 2
			Chem EI 2	Chemistry Elective 2 ^{CE}	3	0	3	4 th year standing
			Chem 443	Chemistry Correlation 2 ^{ACC}	3	0	3	Chem 433
			Gen Ed EI3	GE Elective 3 ^{GEE}	3	0	3	None
				Total	11	3	12	

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Summary of Units

General Education Subjects ^{GE}	24 units
Rizal Course	3 units
PE	8 units
NSTP	6 units
General Education Elective Subjects ^{GEE}	9 units
Chemistry Course Courses ^{CC}	54 units
Professional Engagement/OJT	3 units
Chemical Research ^{RES}	8 units
Ancillary Courses ^{AC}	14 units
Chemistry Elective Courses ^{CE}	6 units
Additional Chemistry Courses ^{ACC}	9 units
Bridging Courses ^{BC}	6 units
TOTAL	150 units

General Education Electives (9 units)

**Students will choose 3 elective courses from the list, two must come from different domains*

Arts and Humanities Domain

Elements of Understanding Gender and Development
Great Books
Indigenous Creative Crafts
Reading Visual Art
Society and Literature / Sosityad at Literatura
Technical Writing Across Professions
Teknikal na Pagsulat sa Iba’t ibang Larang
Waray Culture and the Arts

Mathematics, Science and Technology Domain

Chemical Commodities
Disaster Risk Reduction and Management
Drugs: Discovery, Benefits and Illegal Uses
Environmental Data Analysis
Environmental Science
Finite Mathematics
Global Climate Change –Resilience and Vulnerability
History of Mathematics
Living in IT Era
Science Writing and the Graduate Life
Urban Environments

Social Science and Philosophy Domain

Economics for Everyday Life
Entrepreneurship for All Professionals
Gender and Society / Kasarian at Lipunan
Hermeneutics
Logic
Philippine Indigenous Community
Philosophy of Man
Religion, Religious Experiences and Spirituality
Symbolic Logic
The Entrepreneurial Mind

Chemistry Elective (6 units)

Advanced Organic Chemistry (3 units)
Industrial Chemistry (3 units)
Molecular Spectroscopy (3 units)
Biomolecules (3 units)
Biotechnology and Microbiology (3 units)
Special Topics in Chemistry (3 units)
Environmental Chemistry (3 units)
Food Chemistry (3 units)

Additional Courses:

CHEM 313: Effective Science Communication
CHEM 433: Chemistry Correlation 1
CHEM 443: Chemistry Correlation 2

Professional Engagement

240 hours

Prepared by:

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