Bachelor of Science Program in Environmental Science

General Information

Degree Designation: Bachelor of Science Program in Environmental Science

Total Credits : 144 credits

Graduate : 4 years

Academic Year

The academic calendar mostly consists of two semesters (Two-semester system). Each semester is not less than 15 weeks. The summer session is scheduled to meet the requirements of each

1 st semester : June - September2 nd semester : November - February

Summer semester : March – May

Course Structure

A: General Education Course

B : Major Course

C : Free Elective Course

A: General Education (30 credits)

1. Language and Communication (9 credits)

- Fundamental Course (6 credits):

Course ID	Course name	Credits
1551001	Fundamental English	3(3-0-6)
1551002	English for Communication	3(3-0-6)
- Free Elective	(3 credits):	
1541001	Thai Language Usage Skills	3(3-0-6)
1541002	Language and Communication for Specific Purposes	3(3-0-6)
1561001	Japanese for Communication	3(3-0-6)
1571001	Chinese for Communication	3(3-0-6)
1571002	Fundamental Chinese for Tourism	3(3-0-6)
1661001	Korean for Communication	3(3-0-6)
1691001	Fundamental Burmese	3(3-0-6)
1691002	Burmese for Communication	3(3-0-6)

2. Humanities (6 credits)

Course ID	Course name	Credits
1001003	Human Behavior and Self-Development	3(3-0-6)
1001005	Thinking and Decision Making Skill	3(3-0-6)
1511001	Ethics and Human Beings	3(3-0-6)
1511002	Facts of Life	3(3-0-6)
1521001	Buddhism	3(3-0-6)
1631001	Information for Study and Research	3(3-0-6)
2011001	Aesthetics of Visual Arts	3(3-0-6)
2051001	Aesthetics of Performing Arts	3(3-0-6)
2061001	Music Appreciation	3(3-0-6)
3501001	Leadership Development	3(3-0-6)
3501003	Personality Development and the Arts of Socializing	g 3(3-0-6)

3. Social Sciences (6 credits)

Course ID	Course name	Credits
2501001	History of Thai Society and Culture	3(3-0-6)
2501003	Public Mind and Civic Social Engagement	3(3-0-6)
2501004	Interdisciplinary Social Science for Development	3(3-0-6)
2501005	Kamphaeng Phet Studies	3(2-2-5)
2521001	Globalization and Localization	3(3-0-6)
2521002	ASEAN Studies	3(3-0-6)
2541001	Human Beings, Community, and Environment	3(3-0-6)
2541002	Local Resource Management	3(3-0-6)
2551002	Fundamental Knowledge on Thai Politics and	3(3-0-6)
	Government	
2561001	Introduction to Laws	3(3-0-6)
3501004	Business Initiation	3(3-0-6)
3531001	Finance in Daily Life	3(3-0-6)
3541001	Entrepreneurship	3(3-0-6)
3591002	Sufficiency Economy	3(3-0-6)

4. Mathematics, Science, and Technology (6 credits)

Select courses in subjects 1. - 4. (3 credits)

Course ID	Course name	Credits
1161001	Sports and Recreation for Quality of Life	3(2-2-5)
1161002	Exercise for Health	3(2-2-5)
4001002	Science and Technology for Daily Life	3(3-0-6)
4001003	Environments and Natural Resources Conservation	3(3-0-6)
4071001	Health and Health Care	3(3-0-6)
4091001	Mathematics in Daily Life	3(3-0-6)
4091003	Mathematics and Decision Making	3(3-0-6)
4121001	Computer and Information Technology	3(2-2-5)
4121005	Website Design and Development	3(2-2-5)
4121006	Package Software for Application	3(2-2-5)
5001001	Agriculture in Daily Life	3(3-0-6)
5071001	Food for Health	3(3-0-6)
5501001	Technology in Daily Life	3(3-0-6)
	1161001 1161002 4001002 4001003 4071001 4091001 4091003 4121001 4121005 4121006 5001001 5071001	Sports and Recreation for Quality of Life Exercise for Health Science and Technology for Daily Life Environments and Natural Resources Conservation Health and Health Care Mathematics in Daily Life Mathematics and Decision Making Computer and Information Technology Website Design and Development Package Software for Application Agriculture in Daily Life Food for Health

B: Major Course (108 credits)

Core subjects (26 credits)

Course ID	Course name	Credits
4011103	Principles of Physics	4(3-3-7)
4021101	Chemistry and Laboratory 1	4(3-3-7)
4021102	Chemistry and Laboratory 2	4(3-3-7)
4031101	Biology and Experiments 1	4(3-3-7)
4031102	Biology and Experiments 2	4(3-3-7)
4091401	Calculus and Analytical geometry 1	3(3-0-6)
4092401	Calculus and Analytical geometry 2	3(3-0-6)

Major Requirement (49 credits)

Course ID	Course name	Credits
4002251	English for Sciences	3(2-2-5)
4061201	Environmental Science Foundation	3(2-2-5)
4061202	Environmental Ecology	3(2-2-5)
4062201	Environmental Chemistry	3(2-2-5)
4062202	Environmental Survey and Quality Analysis	3(2-2-5)

4062203	Water Pollution	3(2-2-5)
4062204	Air and Noise Pollution	3(2-2-5)
4063201	Solid Waste Management	3(2-2-5)
4063202	Geographic Information Technology for	
	Environment	3(2-2-5)
4063203	Principles of Watershed Management	3(2-2-5)
4063204	Wastewater Treatment Technology	3(2-2-5)
4063205	Management of Natural Resources and	
	Environment	3(2-2-5)
4063207	English for Environmental Sciences	3(2-2-5)
4063208	Seminar in Environment	1(0-2-1)
4064201	Basic Environmental Impact Assessment	3(2-2-5)
4064202	Health Approach and Environmental Safety	3(2-2-5)
4064203	Environmental Research	3(1-2-4)
Major Elective	e Course (12 credits)	
Course ID	Course name	Credits
4061301	Environmental Earth Science	3(2-2-5)
4061302	Environmental Microbiology	3(2-2-5)
4062301	Energy and Environment	3(2-2-5)
4062302	Tropical Ecology	3(2-2-5)
4062303	Environmental law and Policy	3(3-0-6)
4062304	Environmental Economics	3(3-0-6)
4062305	Land Use Planning	3(2-2-5)
4062306	Environmental Science for Camping Management	3(2-2-5)
4063301	Ping Watershed Study	3(2-2-5)
4063302	Eco-Tourism	3(2-2-5)
4063303	Environmental Extension	3(2-2-5)
4063304	Principle of Environmental Education	3(3-0-6)
4063305	Environment and Development	3(3-0-6)
		0(0 0 5)
4063306	Biodiversity Conservation	3(2-2-5)
4063306 4063307	Biodiversity Conservation Natural and Cultural Heritage Conservation	3(2-2-5)
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4063307	Natural and Cultural Heritage Conservation	3(2-2-5)
4063307 4063308	Natural and Cultural Heritage Conservation Soil Pollution	3(2-2-5) 3(2-2-5)

Environmental Toxicology and Laboratory	3(2-2-5)
Environmental Pollution Control Technology	3(2-2-5)
Environmental Sanitation	3(2-2-5)
Fundamentals of Environmental	3(2-2-5)
Soil and Water Conservation	3(2-2-5)
Water Resources and Management	3(2-2-5)
Wastewater Treatment Engineering	3(2-2-5)
Solid Waste Management Engineering	3(2-2-5)
Environment Remote Sensing	3(2-2-5)
Application of GIS for Natural Resource	
Management	3(2-2-5)
Urban Planning and Management	3(2-2-5)
Forest Resources and Management	3(2-2-5)
	Environmental Pollution Control Technology Environmental Sanitation Fundamentals of Environmental Soil and Water Conservation Water Resources and Management Wastewater Treatment Engineering Solid Waste Management Engineering Environment Remote Sensing Application of GIS for Natural Resource Management Urban Planning and Management

Language and Communication Skills Science (15 credits)

Course ID	Course name	Credits
4022301	Organic Chemistry and Laboratory 1	4(3-3-7)
4022501	Biochemistry and Laboratory 1	4(3-3-7)
4023601	Analysis Chemistry and Laboratory	4(3-3-7)
4063206	Statistics in Environmental Science Research	3(2-2-5)

Professional Experience or Cooperative Education (7 credits)

Select a plan

Course ID	Course name		Credits
4064401	Preparation for Professional Experience Practice		
	in Environmental Science		1(90)
4064402	Professional Experience Practice in Environmental		
	Science		5(450)
or			
4064404	Cooperative Education 6	6(540)	

C: Free Elective Course (6 credits)

Freely choose any courses provided by the university. The courses chosen must not have been taken before by the student and must not be the compulsory non-credit courses.