

Program Curriculum of B.Sc. (Environmental Management)

Operated by Faculty of Environment at Bang Khan and Kamphaeng Seng Campuses

with total credits of 137 credits

Course's structure

1) General Education Section	at least	30	credits
- Wellness Group	at least	6	credits
- Entrepreneurship Group	at least	3	credits
- Language and Communication Group	at least	13	credits
- Thai Citizen and Global Citizen Group	at least	5	credits
- Aesthetics Group	at least	3	credits
2) Specific Course Section	at least	101	credits
2.1) Core courses		44	credits
2.1.1) Basic courses in Sciences and Mathematics		27	credits
2.1.2) Specific courses in Sciences		17	credits
2.2) Specific Courses Required		44	credits
2.3) Specific Elective Courses	at least	13	credits
3) Free Elective Course	at least	6	credits
4) Internship	at least	150	hours

Program's course information

1) General Education Section	at least	30	credits
1.1) Wellness Group	at least	6	credits
01175xxx	Physical Education Activities		1(0-2-1)
	and select to study at least 5 more credits from the list of course in the Wellness Group		
1.2) Entrepreneurship Group	at least	3	credits
	Select courses from the list of course in the Entrepreneurship Group		
1.3) Language and Communication Group		13	credits
01355xxx	English		9(- -)
	Thai language		3(- -)
	Informatics/Computer		1(- -)
1.4) Thai Citizen and Global Citizen Group	at least	5	credits
01999111	Knowledge of the Land		2(2-0-4)
	and select to study at least 3 more credits from the list of course in the Thai Citizen and Global Citizen Group		
1.5) Aesthetics Group	at least	3	credits
	Select courses from the list of course in the Aesthetics Group		
2) Specific Course Section	at least	101	credits
2.1) Core courses		44	credits
2.1.1) Basic Courses in Science and Mathematic		27	credits
01403113	Basic Chemistry I		3(3-0-6)
01403115	Basic Chemistry II		3(3-0-6)
01403118	Basic Chemistry Laboratory		1(0-3-2)
01417111	Calculus I		3(3-0-6)
01417112	Calculus II		3(3-0-6)
01419211	General Microbiology		3(3-0-6)
01419214	Laboratory in Fundamental Microbiology		1(0-3-2)
01420113	Laboratory in Physics I		1(0-3-2)

01420114	Laboratory in Physics II	1(0-3-2)
01420117	Basic Physics I	2(2-0-4)
01420118	Basic Physics II	2(2-0-4)
01424111	Principles of Biology	3(3-0-6)
01424112	Laboratory in Biology	1(0-3-2)

2.1.2 Specific Courses in Sciences 17 credits

01401114	General Botany	3(2-3-6)
01402311	Biochemistry I	2(2-0-4)
01403227	Basic Organic Chemistry	4(4-0-8)
01403231	Chemical Quantitative Analysis	2(2-0-4)
01422111	Principles of Statistics	3(3-0-6)
01423113	General Zoology	3(2-3-6)

2.2) Specific Courses Required

(1) Basic Courses in Environment 12 credits

01661311	Fate and Transport of Pollutants	3(3-0-6)
01661313	Communication for Environmental Management	3(3-0-6)
01671211	Natural Environment	3(3-0-6)
01671212	Principles of Environmental Science	3(3-0-6)

(2) Environmental Technology Group 6 credits

01661321	Environmental Technology Creation	3(3-0-6)
0651363	Zero Waste Management	3(3-0-6)

(3) Environmental Management Group 12 credits

01661231	Assessment of Environmental Potential for Sustainable Management	3(3-0-6)
01661331	Tools for Environmental Management	3(3-0-6)
01661433	Micrometeorology and Global Change	3(3-0-6)
01661434	Disaster and Restoration	3(3-0-6)
01661435	Environmental Management for Sustainable Agriculture	3(3-0-6)
01671332	Environmental Impact Study	3(2-3-6)

01671333	Laws and Environmental Management Tools for Sustainable Development Goals	3(3-0-6)
(4) Research and Ethics Group		5 credits
01661441	Environmental Governance	1(1-0-2)
01651497	Seminar	1
01651499	Environmental Science and Technology Project	3

2.3) Specific Elective Courses at least 13 credits

Select courses (at least 12 credits) from the following courses

(1) Environmental Impact Assessment and Resources

Management Group

01651451	Ecosystem and Natural Resource Management	3(3-0-6)
01661351	Watershed Science	3(2-3-6)
01661352	Ecological Engineering Management	3(3-0-6)
01661353	Health and Social Environmental Impact	3(3-0-6)
01661354	Environmental and Life Science	3(3-0-6)
01661355	Bioindicators Resources Assessment and Management	3(2-3-6)
01661455	Land Use and Land Cover Management	3(2-3-6)

(2) Technology and Pollution Control Group

01651363	Air Pollution	3(2-3-6)
01661361	Environmental Pollutants Detoxification	3(3-0-6)
01661362	Wave Pollution Management	3(3-0-6)
01661463	Innovative Ecological Engineering from Climate Change	3(2-3-6)
01661464	Management and Control of Industrial Pollutants	3(3-0-6)
01661465	Urban Air Quality Management	3(3-0-6)
01661466	Geo-information Technology for Environmental Management	3(3-0-6)

(3) Environmental Management Group

01661332	Model of Community Waste Management	3(3-0-6)
01661436	Integrated Environmental System Management	3(3-0-6)
01661437	Integrated Data Analysis Environmental Decision	3(3-0-6)

01661438	Performance Tracking and Environmental Monitoring	3(3-0-6)
01661439	Occupational Health, Safety and Environment	3(3-0-6)
	(4) Research Group	
01661496	Selected Topics in Environmental Management	3(3-0-6)
01661498	Special Problems	1-3

- | | | |
|--------------------------------|-----------------|------------------|
| 3) Free elective course | at least | 6 credits |
| 4) Internship | at least | 150 hours |