



HANDBOOK

2002-2004

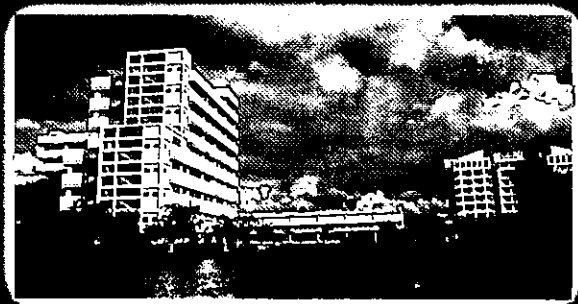
BURAPHA UNIVERSITY



Bangsaen Chonburi Thailand



BURAPHA UNIVERSITY



**HANDBOOK
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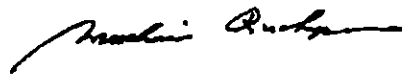
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Message from the President of Burapha University Council

Welcome

As one of the prestigious universities in the eastern region, Burapha University has been an exhilarating choice both for undergraduate and graduate levels. Since its inception, Burapha University has fully committed itself to the academic excellence, achieving through teaching, learning, and research. The University offers a challenging and rewarding learning environment. Besides, it plays a significant role in providing intellectual leadership and service to the professions, communities, and wider societies.

In the years to come, the University continues to enhance the quality of its intellectual, cultural, and physical environment and to create, advance, and disseminate knowledge and enquiry in ways which enrich the university's professional focus and strengthen the knowledge and intellectual base of the professions.



Meechai Ruchupan

President of the Burapha University Council



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Message from the President

Welcome to Burapha University

Burapha University is a dynamic, rapidly growing university, located in the eastern part of Thailand. Through its growing maturity, the University has maintained its clear and fundamental purpose of providing high quality and accessible higher education and research that contribute to the region's and the nation's development.

The University is strongly committed to excellence in teaching and research, community service, and culture and arts conservation. Academically, the University provides students, ranging from undergraduates to doctoral degree candidates, with a wide variety of study programs that not only accommodate their interests and career aspirations, but also prepare them to meet the challenges of a knowledge-driven global economy. Additionally, in order to strengthen its research focus, the University has devised a practical framework for research management that aims to encourage multidisciplinary initiatives, and the pursuit of knowledge in the form of both pure and applied research.

Through the concerted efforts of our staff, students, alumni and collaborators, we firmly believe that Burapha University can maintain its high academic standards and remain competitive in the world of education and research.



Prof. Suchart Upatham, Ph.D.

President





Burapha University

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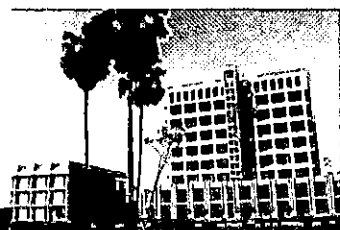
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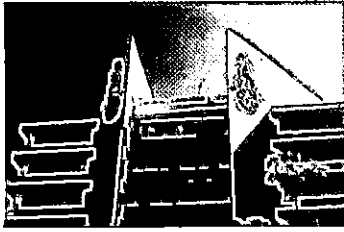


BURAPHA UNIVERSITY

(AN ACCREDITED PUBLIC UNIVERSITY)

Web page : www.buu.ac.th

E-mail address : bucc4.buu.ac.th



Location and Historical Background

Burapha University is a public university located in Bangsaen, Chonburi, about 100 km. from Bangkok, in the Eastern Seaboard Area of Thailand. The campus covers an area of 256 acres. It was first established as the Bangsaen College of Education in 1955-the first tertiary education institution ever established outside of Bangkok- to produce graduates in teacher education. In 1984, when the Prasarnmitr College of Education in Bangkok was upgraded to university level and named Srinakharinwirot University, Bangsaen College of Education was included as a branch campus and started to offer several other degrees besides teacher education. In 1990, due to the need for more college-trained personnel to implementation the Government's Eastern Seaboard Development Project to industrialize the area, the Bangsaen Campus was upgraded to full university level and renamed Burapha University, which means "University of the East".

Burapha University has rapidly expanded since then. Enrollment in 2000 was approximately 12,000 students, with over 500 teaching staff and over 300 general staff. There are 16 faculties and colleges: Faculty of Humanities and Social Sciences, Education, Nursing, Public Health, Science, Engineering, Fine and Applied Arts, , Science and Liberal Arts, Marine Technology, Medicine, Graduate School, Gems College, Maritime College, Graduate School of Commerce, Graduate School of Public Administration, and Sport Science College. In addition, the University also has a number of advanced research and service centers, such as the Library Center, the Institute of Marine Science, the Academic Services Center, the Computer Center, the University Hospital, etc. Burapha University offers more than fifty programs of study, thirty programs at the Master's degree level, one Ed.D program, three Ph.D programs, and many short- course training programs per year. More Ph.D programs in many disciplines are being set up and will be offered in the near future.



Philosophy

"To nurture the intellect, to encourage the search for knowledge and morality, and to guide society."

University Mission

1. To graduate scholars with self-directed learning skills and high standards of morality.
2. To build new bodies of knowledge in a spirit of academic excellence.
3. To be an academic resource with a leading role in the development of the eastern region of Thailand and the preservation of regional culture.

University Vision

1. To offer education which nurtures the intellect and high moral standards.
2. To seek new bodies of knowledge as a means towards academic excellence.
3. To provide academic services that promote development, and maintain cultural heritage.
4. To serve as a regional institute of higher learning and aid in the development of the eastern region of Thailand.

University Symbols and Emblem



As stated in the royal decree, the university emblem is made up of the figure "nine" in the Thai script surrounded by a flame and 8 radii with curves at the base. The "nine" represents His Royal Highness King Rama IX.

University Colours

The University colours are grey and gold to signify the University's commitment to the intellect and morality.

Grey (the colour of the brain) means "Intellectual Progress," and gold means "Morality"

University Tree

The University tree is the coconut tree, which is commonly found throughout the campus and is regarded as a hardy plant of all-round usefulness.

University Motto

"The acquisition of intellect results in contentment."

University Organization

Burapha University is divided into 27 administrative units:

President's Office

Graduate School

Faculty of Nursing

Faculty of Science

Faculty of Engineering

Faculty of Fine and Applied Arts

Faculty of Education

Faculty of Public Health

Faculty of Humanities and Social Science

Faculty of Science and Liberal Arts

Faculty of Marine Technology

Faculty of Medicine

Gems College

Maritime College

Sport Science College

Graduate School of Commerce

Graduate School of Public Administration

Chantaburi Campus

Srakaew Campus

Institute of Marine Science

Institute of Arts and Culture

Institute of Social and Environmental Studies

Computer Center

Health Care Center

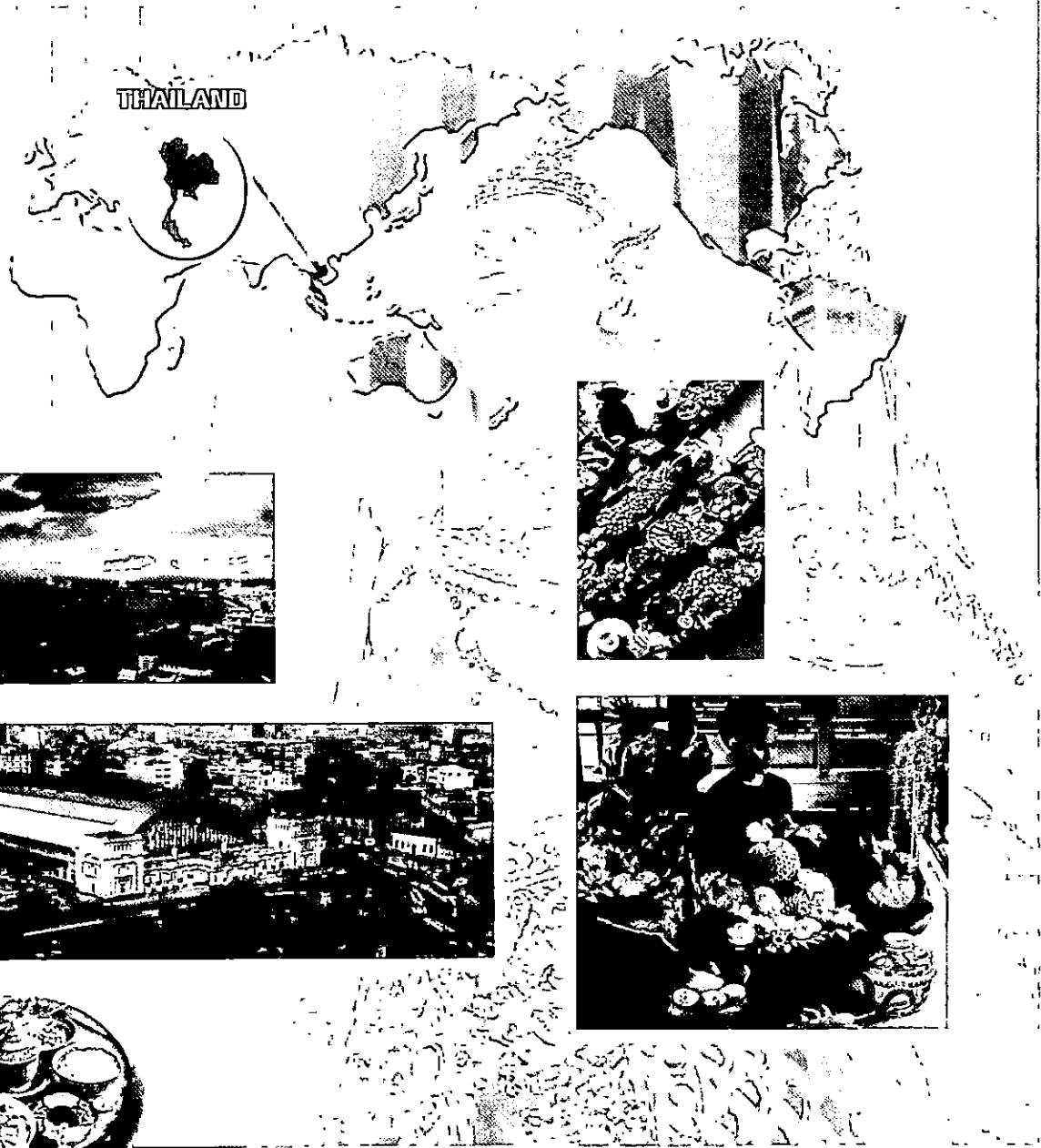
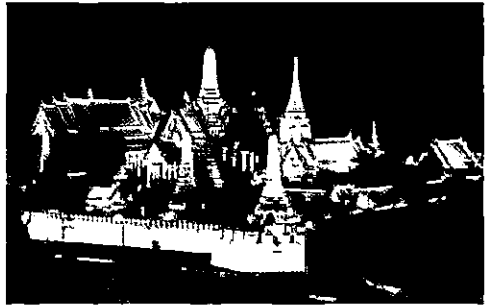
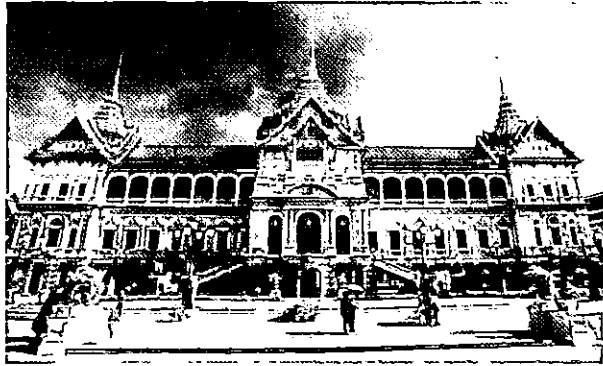
Academic Services Center (Uniserv)

Standard and Quality System Center

Central Library

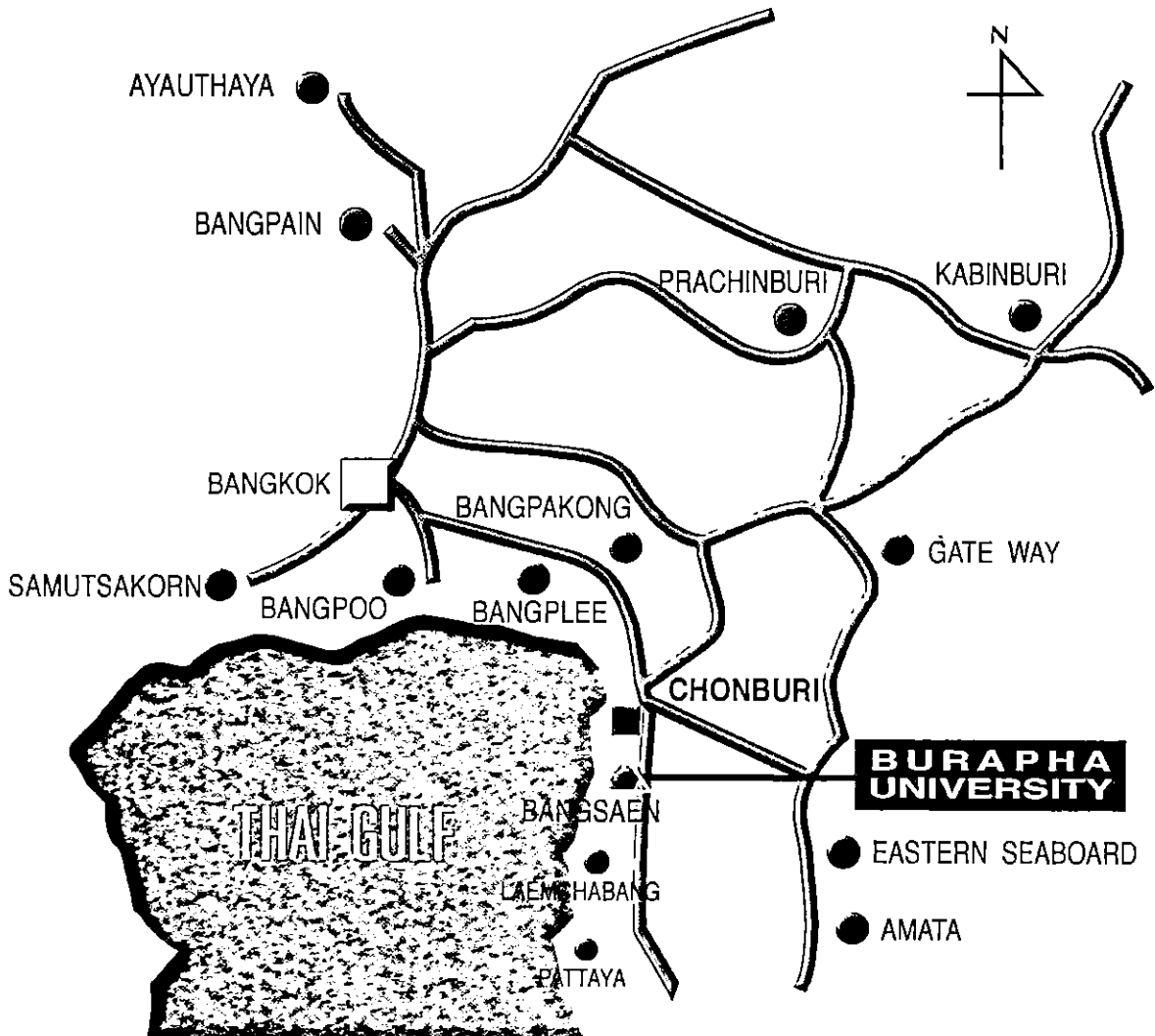
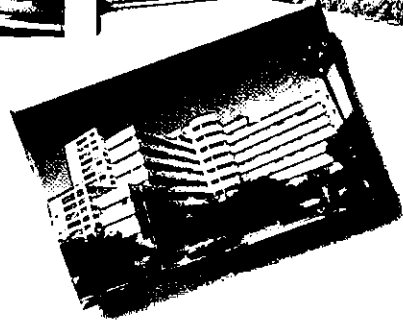
Piboonbumpen Demonstration School

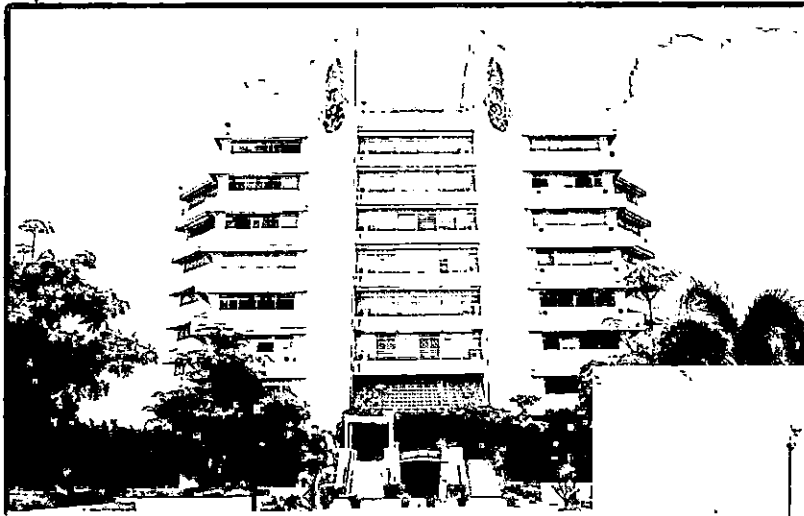




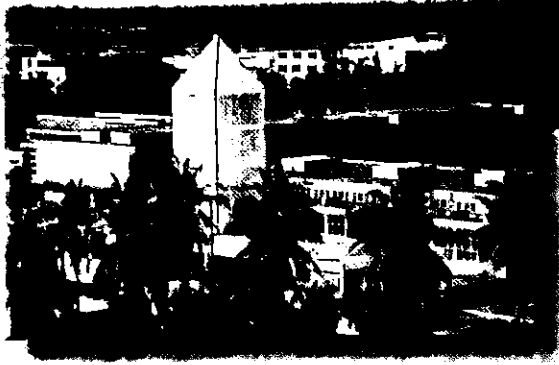
BURAPHA UNIVERSITY

BANGSAEN CHONBURI THAILAND





Burapha University





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University Council Members

Council Chairman

1. Mr. Meechai Ruchupan, M.C.L.

Deputy Council Chairman

2. Assoc. Prof. Kamchud Mongkolkul, Ph.D.

External Members

3. Mr. Prayoon Chindapradist, Graduate Diploma in Accountancy

4. Wirojana Tantraporn, Ph.D.

5. Mr. Chakramon Phasukvanich, M.Econ.

6. Sumet Tantivejkul, Ph.D.

7. Mr. Paiboon Wattanasiritham, B.Sc.

8. Mr. Narong Chokwatana, B.Sc.

9. Prof. Piamsak Menasveta, Ph.D.

Members Ex-Officio

10. Prof. Suchart Upatham, Ph.D.

University President

11. Samrit Yossomsakdi, Ph.D.

President of University Senate Council

12. Assoc. Prof. Kochakorn Sungkachad, Ed.D.

Faculty Representative

13. Assoc. Prof. Pragrom Prayoonrat, M.Sc.

Faculty Representative

14. Pichai Sonchaeng, Ph.D.

University Administrator Representative

15. Kwanchadil Phisalpong, D.A.

University Administrator Representative

16. Assoc. Prof. Prathum Muangmee, Ph.D.

University Administrator Representative

17. Assoc. Prof. Rana Pongruengphant, Ph.D.

University Vice-President and Secretary to the Council

University Administrative Board

1. Prof. Suchart Upatham, Ph.D. (Natural Resources)
President
2. Assoc. Prof. Boonserm Poolsanguan, Ph.D. (Invertebrate Physiology)
Vice-President for Administration
3. Assoc. Prof. Rana Pongruengphant, Ph.D. (Educational Administration)
Vice-President for Academic Affairs
4. Mr. Virat Karavapitayakula, M.Sc. (Physics)
Vice-President for Planning and Development
5. Asst. Prof. Boonma Thaikao, M.Ed. (Physical Education)
Vice-President for Student Affairs
6. Asst. Prof. Pichan Sawangwong, Ph.D. (Marine Science)
Vice-President for International Relations
7. Asst. Prof. Suda Suvanapirom, M.Com. (Personnel Management)
Acting Vice-President for Special Affairs and Public Relations
8. Assoc. Prof. Prathoom Muangmee, Ph.D. (Physical Education)
Dean, Graduate School
9. Asst. Prof. Suntharawadee Thienpichet, Ph.D. (Higher Education)
Dean, Faculty of Nursing
10. Assoc. Prof. Somchai Dechaphromphun, M.Ed. (Geography)
Dean, Faculty of Humanities and Social Sciences
11. Assoc. Prof. Kashane Chalermwat, Ph.D. (Ecology)
Dean, Faculty of Science
12. Asst. Prof. Wirogana Ruengphrathuengsuka, Ph.D. (Chemical Engineering)
Dean, Faculty of Engineering

13. Assoc. Prof. Chalong Tubsree, Ed.D. (Instruction Systems Technology)
Dean, Faculty of Education
14. Assoc. Prof. Koolarb Rudtanasudjatam, D.P.H. (Health Administration)
Dean, Faculty of Public Health
15. Mr. Thepsakdi Thongnopkoon, M.F.A. (Graphic Arts)
Dean, Faculty of Fine and Applied Arts
16. Asst. Prof. Ranop Pravatngam, M.Ed. (Library Science)
Dean, Faculty of Science and Liberal Arts
17. Pichai Sonchaeng, Ph.D. (Biology)
Dean, Faculty of Marine Technology
18. Pichai Sonchaeng, Ph.D. (Biology)
Director, Institute of Marine Science
19. Mr. Seree Chinodom, M.Ed. (Mathematics Education)
Director, Computer Center
20. Kwanchadil Phisalpong, D.A. (Library and Information Science)
Director, Central Library
21. Somsak Lila, Ed.D. (Research and Curriculum Development)
Director, Piboonbumpen Demonstration School
22. Mr. Withaya Sriyoothana, B.Ed. (Chemistry – Biology)
Director, Academic Services Center (Uniserv)
23. Tanawat Singkalvanija, M.D., (Diplomate of the American Board of Internal Medicine)
Director, Health Science Center
24. Mr. Kriangsak Phramphun, M.Sc. (Geography)
Director, Institute of Social and Environmental Studies
25. Asst. Prof. Jitrapun Pusapukdepob, M.Sc. (Industrial Hygiene and Safety)
Director, Standard and Quality System Center

26. Asst. Prof. Suda Suvanapirom, M.Com. (Personnel Management)
Director, Graduate School of Commerce
27. Assoc. Prof. Saroot Skulrat, M.A. (International Relations and Diplomacy)
Director, Graduate School of Public Administration
28. Samrit Yossomsakdi, Ph.D. (Political Science)
President, University Senate Council
29. Asst. Prof. Arunee Therdteppitak, Ph.D. (Electrochemistry)
Acting Director, Gems College
30. Assoc. Prof. Kochakorn Sangkachad, Ed.D. (Adult Education)
Faculty Representative
31. Assoc. Prof. Pragrom Prayoonrat, M.Sc. (Agriculture)
Faculty Representative
32. Mr. Virat Karavapitayakula, M.Sc. (Physics)
Acting Director, Maritime College
33. Mr. Saman Suppasri, M.Ed. (Art Education)
Assistant President for Administration
34. Mrs. Sompid Udomsin, M.Ed. (Science Education)
Assistant President for Special Affairs
35. Suchada Rattanawanitpun, Ph.D. (Curriculum and Instruction)
Assistant President for Academic Affairs
36. Wichitporn Lausuwanagoon, Ed.D. (Research and Curriculum Development)
Assistant President for Academic Affairs
37. Rachanee Sunsern, D.N.Sc. (Nursing)
Assistant President for Academic Affairs
38. Asst. Prof. Sittipun Sirirattanachai, Ph.D. (Marine Science)
Assistant President for Planning and Development

39. Mr. Apisuk Chairojwatana, M.Sc. (Information Technology in Business)
Assistant President for Student Affairs
40. Mr. Thanongsak Yingratanasuk, M.S. (Public Health)
Assistant President for International Relations
41. Ms. Yawaluk Saengchan, M.Ed. (Thai)
Assistant President for Special Affairs and Public Relations
42. Mr. Vasin Yuvanatemiya, M.Sc. (Marine Science)
Assistant President for Administration , Chantaburi Information Technology Campus
43. Ms. Araya Sunthornvipart, M.B.A.
Assistant President for Special Programs and Public Relations, Chantaburi Information
Technology Campus
44. Asst. Prof. Sombat Garnsomsart, M.Sc. (Physics)
Assistant President, Srakaew Information Technology Campus
45. Assoc. Prof. Wanee Deoisres, Ph.D. (Nursing)
Assistant President for Research
46. Mr. Somsak Aeamkongsri, M.Ed. (Higher Education)
Director, Planning Division
47. Mr. Pichit Meephojana, M.Ed. (Educational Administration)
Director, Educational Services Division
48. Miss Pinyo Piamprasatporn, M.Ed. (Educational Administration)
Director, Student Affairs Division
49. Mrs. Punnee Plaengchantuek, M.Ed. (Educational Administration)
Director, General Affairs Division
50. Asst. Prof. Paipan Intanin, M.Ed. (Library Science)
Acting Director, Institute of Arts and Culture

Undergraduate Admissions

Applicants can apply for admission as follows:

1. Four-year undergraduate programs through the National Entrance Examination

The examination is administered by the Ministry of University Affairs for placement to public and private tertiary institutions throughout Thailand. Application forms may be purchased in March at the University and the examination is taken in April. Applicants must have high school certificates (grade 12) or equivalent, and have a good command of the Thai language.

2. Four-year undergraduate programs through Burapha University's entrance examination

The number of students admitted through this procedure is 60% of the total number of places provided by the University. A quota for students with special abilities e.g. sports or music. Students can apply for the entrance examination in September and sit for the examination at the beginning of November every year. To be eligible, students must be studying in Grade 12 (Matayom VI) at high schools located in the twelve eastern provinces (Chonburi, Samut Prakarn, Nakhorn Na-Yok, Srakaew, Prachinburi, Chachuengsao, Rayong, Chantaburi, Trad, Saraburi, Lopburi, and Pranakornsri Ayutthaya). They must also be residents of the eastern region at least one year prior to the date of application.

3. Four-year part-time programs of study

Apart from offering degree programs that are taught during working office hours, Burapha University also offers four-year special programs in the evening on weekdays and during the daytime on Saturdays and Sundays. Applicants who have graduated from Grade 12 (Matayom VI) or equivalent can apply for admission between February and March. The entrance examination administered by Burapha University is usually held in May of each year.

4. Two-year part-time continuing education programs of study

Burapha University invites applications from persons who have graduated with associate degrees or equivalent to study for two-year part-time continuing education programs in the following fields of study, the programs are offered only on Saturday and Sunday.

1. "Bachelor of Business Administration Program" with a major in Accounting, Marketing or Personnel Management
2. "Bachelor of Education Program" with a major in Educational Technology or Industrial Technology Education
3. "Bachelor of Public Health Program" with a major in Public Health
4. "Bachelor of Nursing Program" with a major in Nursing
5. "Bachelor of Science Program" with a major in Physics Instrument, Aquaculture, or Maps and Geographical Technology

Applicants can apply for the programs between January and February. Entrance examinations administered by Burapha University are usually held in February every year.

University Services

Services and support facilities available to students on campus include cafeterias, a central library, a computer center, dormitories, a health science center, a post office, scholarships and student loan service, sport facilities, etc.

The Central Library

The Central Library is an organization supporting the teaching and research activities of students and academic staffs. There are more than 20,000 library resources available through the online searching service of the computer network system.

The Computer Center

The Computer Center is an organization providing computer services for administration and instruction, including the organization of computer training courses and the provision of academic services for the general public.

The Health Science Center

The Health Science Center, with a capacity equivalent to that of a 150-bed hospital, is an organization concentrating on research as well as the provision of health services for students, university personnel, and the general public. The University, through the University Hospital which is located on campus, provides medical services round the clock.

Scholarships and Loan Service

There are numerous scholarships available for students in various programs of study with funds ranging from 2,000 to 36,000 baht. The Government student loan service is also available to students who have financial difficulties.

Student Activities

The University supports a variety of student activities. Activities are sponsored and coordinated by the Student Council through various clubs, such as the English Club, Football Club, Aquaculture Club, Nature Conservation and Environmental Club, etc.

Sports Facilities

The University subscribes to the maxim : “a sound mind in a sound body.” Sports facilities for football, basketball, tennis, swimming, gymnastics, etc. are therefore provided for students and faculty members.

Dormitories

There are 11 women’s dormitories and 4 men’s dormitories on campus with rooms accommodating a total of 1,500 students (400 men, 1,100 women). All freshmen are given priority for dorm space.

Cafeterias

There are numerous cafeterias situated in different buildings, as well as a central cafeteria, to provide food services for students. All meals and dining facilities are under university supervision to ensure cleanliness and fair pricing.

Post Office

There is a Post Office located on campus at the Administrative Building serving to students and faculty during normal government office hours (weekdays 08.30-16.30 hrs).

The Institute of Marine Science

The Institute of Marine Science is an organization emphasizing research on biological problems and the cultivation of rare and endangered marine animals. The Marine Environment Department focuses on the Eastern Seaboard; the Biodiversity Department on living animals, plants, and micro-organisms in Eastern Seaboard areas; and the Marine Biotechnology Department on developing living natural products including sustainable exploitation of natural resources. At present, these are more than 80 completed projects and many ongoing ones. Examples are biological studies of sea horses, butterfly fish, and damselfish. There are also projects focusing on biologically active substances from bacteria and marine invertebrates.

The Academic Services Center

The Academic Services Center (Uniserv) is an organization open to the public that links academic staff to people and social organizations external to the university. It provides academic services in many different fields with a large variety of course arrangements.

Other Services.

Banking facilities such as ATM are available on campus. Payment of University fees can be made electronically through this machine. Other services including health insurance and travel services are also provided.

Research

Research is one of the primary responsibilities of the University. Burapha University realizes its importance as a center for generating and disseminating knowledge, information, and data necessary for the development of the country. The University makes great efforts to support personnel in the conducting of research through budget allotments from the government, the University's own income, and assistance from various organizations. The University has established a center for research promotion in the Educational Services Division.

International Cooperation

Burapha University has special cooperative programs with various universities outside Thailand such as Victoria University of Technology and Curtin University of Technology in Australia, Porto University in Portugal, Chungnam National University and Hankuk University in the Republic of Korea, The University of Medicine and Pharmacy in Ho Chi Minh City and Vietnam National University in Vietnam, Brock University in Canada, New York University and Northern Illinois University in the United States, and the University de Paris XIII in France.

Art and Culture Preservation

The University's Arts and Culture Institute is an organization focusing on maintenance, preservation, and promotion of Thai arts and culture. Various kinds of activities are held within and outside the country. A Thai classical music contest for primary and secondary schools in the eastern region is held each year, with winners receiving the Princess Sirindhorn Trophy.

Student Welfare

The University makes available various kinds of services for the welfare of its students. It provides dormitories for about 45% of undergraduate and graduate students, with an aim to maintain these dormitories as both residential and learning centers. Accident insurance and health insurance are provided for the students. Also, as many as 700 scholarships are provided each year. Finally, government educational loans are allocated to about 3,000 students.

Affiliated Institutions

Three institutions affiliated with Burapha University are:

1. Boromrajonani College of Nursing, Chonburi Province
2. Phrapokklao Nursing College, Chantaburi Province
3. Maritime Training Center, Samut Prakarn Province

Chantaburi Campus

The Chantaburi Campus of Burapha University offers programs at both Bachelor's and Master's degree levels.

Srakaew Campus

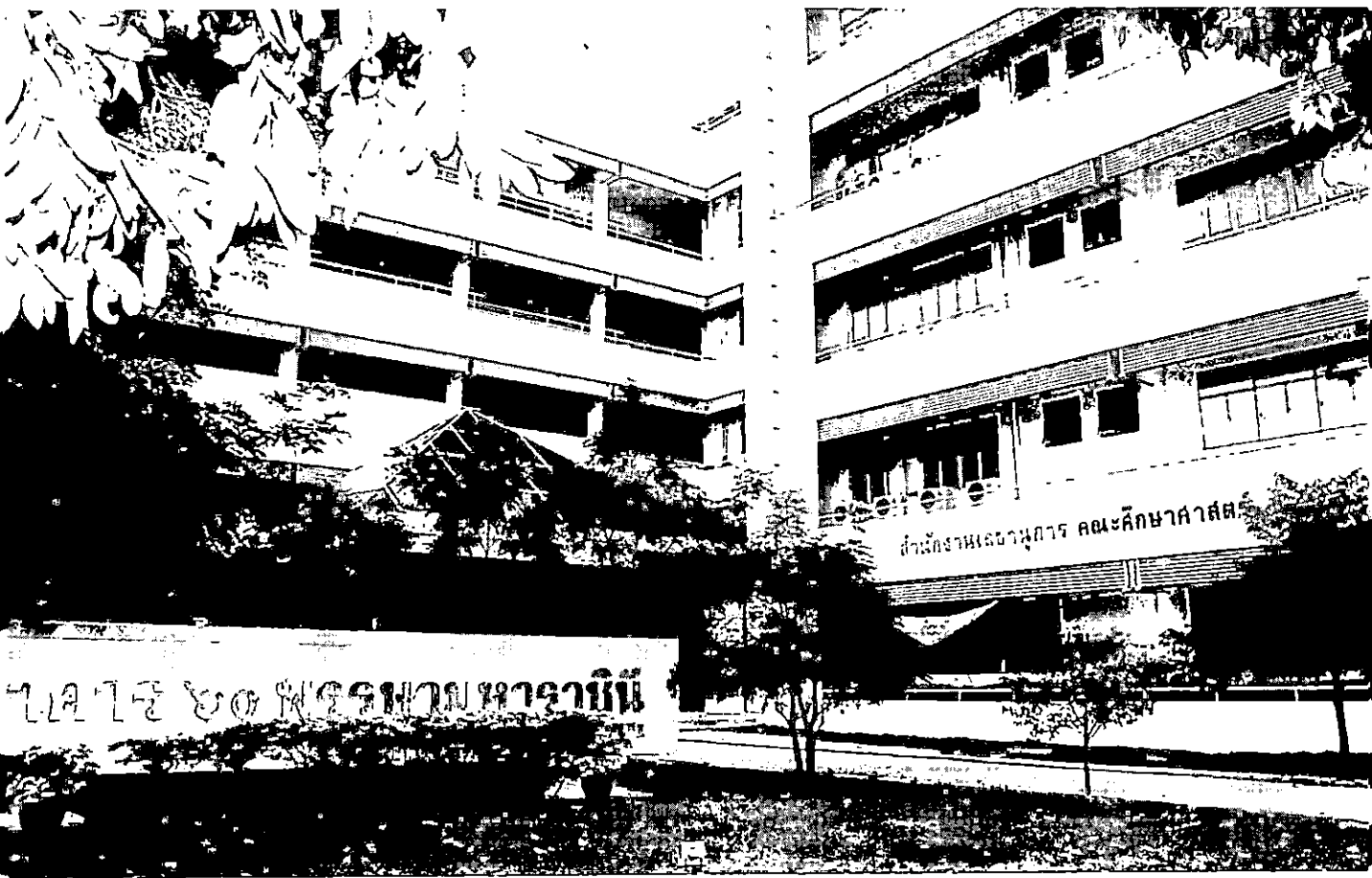
The Graduate Studies Center of Burapha University, Srakaew Province, offers a program leading to the Master of Education (M.Ed.) in Educational Administration.

Tuition Fees and Expenses

Approximate tuition fees and expenses for Burapha University students (per academic year) at the undergraduate level are as follows :

(Unit : Baht)

Full-time (four-year program)			Part-time	
Arts and Education	Sciences and Nursing	Engineering	Four-year Programs	Two-year Continuing Education Programs
3,240	3,740	10,240	39,200	16,700



Faculty of Education

Faculty of Education

Background

The Faculty of Education was established on July 8, 1955 as the first faculty of the University. Programs of study offered by the Faculty of Education are designed to produce complete graduates endowed with both knowledge and virtue. The Faculty of Education endeavours to maintain the educational standards of the teaching profession and to promote its development. It is committed to searching for new knowledge and disseminating research findings to promote academic progress and academic service to the community and country. Furthermore, the Faculty of Education provides academic services to, and cooperates with, other faculties in Burapha University as well as Thai and foreign academic institutions.

Departments

The Faculty of Education is composed of 9 departments plus one demonstration school. They are:

1. Department of Curriculum and Instruction
2. Department of Educational Administration
3. Department of Educational Technology
4. Department of Foundations of Education
5. Department of Guidance and Educational Psychology
6. Department of Industrial Education Project
7. Department of Nonformal Education
8. Department of Physical Education and Recreation
9. Department of Research and Educational Measurement
10. Piboonbumpen Demonstration School

Degrees Offered

The Faculty of Education, Burapha University offers two bachelor degree programs: Bachelor of Education (B.Ed.) with ten majors and Bachelor of Science (B.Sc.) in Exercise and Sport Science.



**Bachelor of Education Program in
Biology**

Courses Structure

Students are required to take a minimum of 141 credits from the following sections:

1. General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits
2. Professional Teaching Courses 40 credits
3. Area of Concentration Courses 65 credits
 - Basic Required Courses 30 credits
 - Major Required Courses 29 credits
 - Major Elective Courses 6 credits
4. Free Elective Courses 6 credits

1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3 3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
212203 English for Health Sciences I	3(2-2-5)
212204 English for Health Sciences II	3(2-2-5)
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-0-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)

Interdisciplinary Integration Group	423301	Instructional Technology	2(2-0-4)
	9 credits	423303	Computer in Education 3(2-2-5)
999101 Interdisciplinary Integration I	430216	Education Organization and Management	2(2-0-4)
	3(3-0-6)	430234	Quality Assurance 2(2-0-4)
999102 Interdisciplinary Integration II	433301	Educational Measurement and Evaluation	3(3-0-6)
	3(3-0-6)	434301	Introduction to Educational Research 2(2-0-4)
999103 Interdisciplinary Integration III			
	3(3-0-6)		
Elective Courses	4 credits		

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.

2. Professional Teaching Courses 40 credits

401472	Professional Principle	2(2-0-4)
402171	Principle and Concepts of Education	3(3-0-6)
404201	General Methods of Teaching	3(3-0-6)
404301	Principle of Curriculum Development and Curriculum Administration	2(2-0-4)
404351	Professional Experience	2(1-2-3)
404401	Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
404451	Practicum in Curriculum Development	2(1-2-3)
404452	Student Teaching	6(0-30-0)
414301	Guidance for Life	2(2-0-4)
415301	Education Psychology	2(2-0-4)

3. Area of Concentration Courses 65 credits

Basic Required Courses	30 credits
302111	Calculus I 3(3-0-6)
302112	Calculus II 3(3-0-6)
303101	Chemistry I 3(3-0-6)
303102	Chemistry II 3(3-0-6)
303103	Chemistry Laboratory 1(0-3-0)
306101	General Biology I 3(3-0-6)
306102	General Biology Laboratory I 1(0-3-0)
306103	General Biology II 3(3-0-6)
308101	Introductory Physics I 3(3-0-6)
308102	Introductory Physics II 3(3-0-6)
308103	Introductory Physics Laboratory I 1(0-3-0)
312201	Elementary Statistics 3(3-0-6)
Major Required Courses	29 credits
301491	Scientific Projects 1(0-2-1)
303220	Organic Chemistry 3(3-0-6)
305201	Introductory Microbiology 4(3-3-6)
306211	Ecology 3(2-3-4)
306212	Cell Biology 3(3-0-6)

306231	Zoology	3(2-3-4)
306241	Botany	3(2-3-4)
306311	General Physiology	3(3-0-6)
306321	Genetics	3(2-3-4)
316201	General Biochemistry	3(3-0-6)

Major Elective Courses 4 credits

4. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in Chemistry

Courses Structure

Students are required to take a minimum of 130 credits from the following sections.

1. General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits
2. Professional Teaching Courses 40 credits

3. Area of Concentration Courses 54 credits
 - Basic Required Courses 30 credits
 - Major Required Courses 20 credits
 - Major Elective Courses 4 credits
4. Free Elective Courses 6 credits

1. General Education Courses 30 credits
- Required Courses 26 credits

English Group 12 credits

Basic English 6 credits

- | | | |
|--------|-------------|----------|
| 212101 | English I | 3(3-0-6) |
| 212102 | English II | 3(3-0-6) |
| 212103 | English III | 3 3-0-6) |
| 212104 | English IV | 3(3-0-6) |

Professional English 6 credits

- | | | |
|--------|---|----------|
| 212201 | English for Humanities and Social Sciences I | 3(2-2-5) |
| 212202 | English for Humanities and Social Sciences II | 3(2-2-5) |
| 212203 | English for Health Sciences I | 3(2-2-5) |
| 212204 | English for Health Sciences II | 3(2-2-5) |
| 212205 | English for Science and Technology I | 3(2-2-5) |
| 212206 | English for Science and Technology II | 3(2-2-5) |
| 212207 | English Communicative Speaking | 3(2-2-5) |

212208	English Writing Skills	3(3-0-6)	404401	Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
	Thai Group	2 credits			
208101	Thai Language Skills	2(2-0-4)	404451	Practicum in Curriculum Development	2(1-2-3)
	Information Technology Group	3 credits	404452	Student Teaching	6(0-30-0)
310101	Computer and the Internet	3(2-2-5)	414301	Guidance for Life	2(2-0-4)
	Interdisciplinary Integration Group	9 credits	415301	Education Psychology	2(2-0-4)
999101	Interdisciplinary Integration I	3(3-0-6)	423301	Instructional Technology	2(2-0-4)
999102	Interdisciplinary Integration II	3(3-0-6)	423303	Computer in Education	3(2-2-5)
999103	Interdisciplinary Integration III	3(3-0-6)	430216	Education Organization and Management	2(2-0-4)
	Elective Courses	4 credits	430234	Quality Assurance	2(2-0-4)
	A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.		433301	Educational Measurement and Evaluation	3(3-0-6)
	2. Professional Teaching Courses 40 credits		434301	Introduction to Educational Research	2(2-0-4)
401472	Professional Principle	2(2-0-4)		3. Area of Concentration Courses 54 credits	
402171	Principle and Concepts of Education	3(3-0-6)		Basic Required Courses 30 credits	
404201	General Methods of Teaching	3(3-0-6)	302111	Calculus I	3(3-0-6)
404301	Principle of Curriculum Development and Curriculum Administration	2(2-0-4)	302112	Calculus II	3(3-0-6)
404351	Professional Experience	2(1-2-3)	303101	Chemistry I	3(3-0-6)
			303102	Chemistry II	3(3-0-6)
			303103	Chemistry Laboratory	1(0-3-0)
			306101	General Biology I	3(3-0-6)
			306102	General Biology Laboratory I	1(0-3-0)
			306103	General Biology II	3(3-0-6)
			308101	Introductory Physics I	3(3-0-6)
			308102	Introductory Physics II	3(3-0-6)
			308103	Introductory Physics Laboratory I	1(0-3-0)
			312201	Elementary Statistics	3(3-0-6)

	Major Required Courses	20 credits
301491	Scientific Projects	1(0-2-1)
303220	Organic Chemistry	3(3-0-6)
303221	Organic Chemistry Laboratory	1(0-3-0)
303230	Physical Chemistry	3(3-0-6)
303231	Physical Chemistry Laboratory	1(0-3-0)
303241	Inorganic Chemistry I	3(3-0-6)
303250	Analytical Chemistry	3(3-0-6)
303251	Analytical Chemistry Laboratory	1(0-3-0)
316201	General Biochemistry	3(3-0-6)
316221	General Biochemistry Laboratory	1(0-3-0)

	Major Elective Courses	4 credits
303471	Chemical Literature	2(2-0-4)
303474	Polymer Chemistry	2(2-0-4)
303475	Environmental Chemistry	2(2-0-4)
303477	Cosmetic Chemistry	2(2-0-4)
303479	Rubber Technology	2(2-0-4)
311301	Introductory Food Science and Technology	2(2-0-4)
311302	General Food Chemistry	2(2-0-4)
316311	Biochemistry I	3(3-0-6)
316453	Biopolymer	2(2-0-4)
4.	Free Elective Courses	6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in

Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in Early Childhood Education

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Professional Teaching Courses

	40 credits
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3. Area of Concentration Courses

	54 credits
- Major Required Courses	43 credits
- Major Elective Courses	11 credits
4. Free Elective Courses

	6 credits
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1. General Education Courses	30 credits	Interdisciplinary Integration Group	
Required Courses	26 credits		9 credits
English Group	12 credits	999101	Interdisciplinary Integration I
Basic English	6 credits		3(3-0-6)
212101	English I	3(3-0-6)	999102
212102	English II	3(3-0-6)	Interdisciplinary Integration II
212103	English III	3(3-0-6)	3(3-0-6)
212104	English IV	3(3-0-6)	999103
			Interdisciplinary Integration III
			3(3-0-6)
Professional English	6 credits	Elective Courses	4 credits
212201	English for Humanities and Social Sciences I	A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.	
212202	English for Humanities and Social Sciences II		
212203	English for Health Sciences I		
	3(2-2-5)		
212204	English for Health Sciences II		
	3(2-2-5)		
212205	English for Science and Technology I		
	3(2-2-5)		
212206	English for Science and Technology II		
	3(2-2-5)		
212207	English Communicative Speaking		
	3(2-2-5)		
212208	English Writing Skills		
	3(3-0-6)		
Thai Group	2 credits	401472	Professional Principle
208101	Thai Language Skills	2(2-0-4)	402171
			Principle and Concepts of Education
			3(3-0-6)
Information Technology Group	3 credits	404201	General Methods of Teaching
310101	Computer and the Internet	3(2-2-5)	3(3-0-6)
		404301	Principle of Curriculum Development and Curriculum Administration
			2(2-0-4)
		404351	Professional Experience
			2(1-2-3)
		404401	Integrated Curriculum and Instruction of Specific Subject
			2(2-0-4)
		404451	Practicum in Curriculum Development
			2(1-2-3)
		404452	Student Teaching
			6(0-30-0)
		414301	Guidance for Life
			2(2-0-4)
		415301	Education Psychology
			2(2-0-4)

423301	Instructional Technology	2(2-0-4)	405303	Language Experiences for Young Children	3(3-0-6)
423303	Computer in Education	3(2-2-5)	405306	Mathematics Experiences for Young Children	3(3-0-6)
430216	Education Organization and Management	2(2-0-4)	405307	Science Experiences for Young Children	3(3-0-6)
430234	Quality Assurance	2(2-0-4)	405308	Assessment in Early Childhood Education	3(3-0-6)
433301	Educational Measurement and Evaluation	3(3-0-6)	405351	Field Experiences for Early Childhood Teacher III	1(0-3-0)
434301	Introduction to Educational Research	2(2-0-4)	405401	Inclusion in Early Childhood Education	Inclusion in Early Childhood Education
3. Area of Concentration Courses 54 credits			405402	Education for Parents	2(2-0-4)
Major Required Courses 43 credits			Major Elective Courses 11 credits		
405101	Early Childhood Development	3(3-0-6)	405205	Storytelling for Young Children	2(2-0-4)
405102	Behavioral Study in Young Children	3(3-0-6)	405206	Play for Young Children	3(3-0-6)
405151	Field Experiences for Early Childhood Teacher I	1(0-3-0)	405207	Emergent Literacy	3(3-0-6)
405201	Physical Development of Young Children	3(3-0-6)	405210	Designing Environments and Instructional Media for Young Children	3(3-0-6)
405202	Social and Emotional Development for Young Children	3(3-0-6)	405211	Play and Puppet Show for Young Children	2(2-0-4)
405203	Enhancement to Creative Thinking for Young Children	3(3-0-6)	405301	Development and Implementation in Early Childhood Curriculum	3(3-0-6)
405204	Early Childhood Education	3(3-0-6)	405302	Rhythm and Movement Experience for Young Children	3(3-0-6)
405208	Art Experiences for Young Children	3(3-0-6)	405304	Music and Drama Experiences for Young Children	3(3-0-6)
405209	Thai Culture and Wisdom for Early Childhood Education	3(3-0-6)			
405251	Field Experiences for Early Childhood Teacher II	1(0-3-0)			

405305	Literature for Young Children	3(3-0-6)
405309	Professional Competency Development in Early Childhood Education	3(3-0-6)
405310	Children Right Advocacy	2(2-0-4)
405311	Childhood Educational Innovation and Technology	3(3-0-6)
405403	Administration and Management in Early Childhood Education	2(2-0-4)
405404	Young Children Life Skill and Life Quality Enhancement	2(2-0-4)
405471	Seminar in Early Childhood Education	2(2-0-4)
405491	Independent Study in Early Childhood Education	3(3-0-6)
4.	Free Elective Courses	6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in Educational Technology

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1.	General Education Courses	30 credits
	Required Courses	26 credits
	- English Group	12 credits
	- Thai Group	2 credits
	- Information Technology Group	3 credits
	- Interdisciplinary Integration Group	9 credits
	Elective Courses	4 credits
2.	Professional Teaching Courses	40 credits
3.	Area of Concentration Courses	54 credits
	- Non-Minor Courses	54 credits
	Major Required Courses	39 credits
	Major Elective Courses	15 credits
	- Plus Minor Courses	36 credits
	Major Required Courses	30 credits
	Major Elective Courses	6 credits

- Minor Courses	18 credits
4. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
212203 English for Health Sciences I	3(2-2-5)
212204 English for Health Sciences II	3(2-2-5)
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-0-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)

Interdisciplinary Integration Group	
	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.	
2. Professional Teaching Courses	40 credits
Required Courses	32 credits
401472 Professional Principle	2(2-0-4)
402171 Principle and Concepts of Education	3(3-0-6)
404201 General Methods of Teaching	3(3-0-6)
404301 Principle of Curriculum Development and Curriculum Administration	2(2-0-4)
404401 Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
404451 Practicum in Curriculum Development	2(1-2-3)
414301 Guidance for Life	2(2-0-4)
415301 Education Psychology	2(2-0-4)
423301 Instructional Technology	2(2-0-4)

423303	Computer in Education	3(2-2-5)	423304	Technology of Human Resources Development	3(3-0-6)
430216	Education Organization and Management	2(2-0-4)	423305	Educational Technology Evaluation	3(3-0-6)
430234	Quality Assurance	2(2-0-4)	423350	Educational Technology and Communication Equipment Operation	3(2-2-5)
433301	Educational Measurement and Evaluation	3(3-0-6)	423352	Computer Application in Education	3(2-2-5)
434301	Introduction to Educational Research	2(2-0-4)	423401	Management of Educational Resources	3(3-0-6)
	Elective Courses	8 credits	423450	Integrated Activities in Educational Technology	3(2-2-5)
404351	Professional Experience	2(1-2-3)	423471	Seminar in Educational Technology	3(2-2-5)
423351	Professional Experience in Educational Technology and Communications	2(1-2-3)		Major Elective Courses	15 credits
404452	Student Teaching	6(0-30-0)		Students can select at least 15 credits from the major elective courses, except these subjects.	
423451	Practicum in Education Technology and Communication Profession	6(0-30-0)	423200	Instructional Message Design	3(3-0-6)
3. Area of Concentration Courses 54 credits			423203	Graphics for Education	3(3-0-6)
	Non-Minor Courses	54 credits	423471	Seminar in Educational Technology	3(2-2-5)
	Major Required Courses	39 credits		Plus Minor Courses	36 credits
423200	Instructional Message Design	3(3-0-6)		Major Required Courses	30 credits
423201	Instructional Design	3(3-0-6)	423201	Instructional Design	3(3-0-6)
423202	Graphics for Education	3(3-0-6)	423202	Graphics for Education	3(3-0-6)
423203	Language for Media Production	3(3-0-6)	423204	Research and Media Development	3(3-0-6)
423204	Research and Media Development	3(3-0-6)			
423205	Electronics for Instructional Media	3(3-0-6)			

423205	Electronics for Instructional Media	3(3-0-6)	423418	Systems Thinking Skill and Educational Technology and Communication Tasks	3(3-0-6)
423304	Technology of Human Resources Development	3(3-0-6)	423471	Seminar in Education Technology	
423305	Educational Technology Evaluation	3(3-0-6)	423490	Educational Technology Thesis	3(2-2-5)
423350	Educational Technology and Communication Equipment Operation	3(2-2-5)		Still Pictures and Motion Pictures	
423352	Computer Application in Education	3(2-2-5)	423207	Technology in Photography	3(3-0-6)
423401	Management of Educational Resources	3(3-0-6)	423353	Still Pictures Photography I	3(2-2-5)
423450	Integrated Activities in Educational Technology	3(2-2-5)	423354	Still Pictures Photography II	3(2-2-5)
	Major Elective Courses	6 credits	423355	Still Pictures Photography III	3(2-2-5)
	General Elective Courses		423356	Still Pictures Photography IV	3(2-2-5)
423200	Instructional Message Design	3(3-0-6)	423357	Photography for Communication	3(2-2-5)
423203	Graphics for Education	3(3-0-6)	423404	Motion Picture Production	3(2-2-5)
423206	Educational Technology and Innovation	3(3-0-6)		Radio and Television Broadcasting	
423302	Information Technology	2(2-0-4)	423307	The Mass Media and Education	3(3-0-6)
423340	Courseware Production for Teleconferencing System	3(2-2-5)	423308	Introduction to Broadcasting	3(3-0-6)
423402	Educational Technology Local Wisdom	3(3-0-6)	423309	Video Production I	3(2-2-5)
423403	Law for Educational Technology and Communication	3(3-0-6)	423358	Radio Broadcasting Program and Electronic Media Production I	3(2-2-5)
423409	AV System Design and Utilization	2(2-0-4)	423359	Radio Broadcasting Program and Electronic Media Production II	3(2-2-5)
			423360	Practicum in Radio Broadcasting Program Production	3(0-9-0)

423361	Video Production II	3(2-2-5)	423455	Practicum in Public Relations	
423405	Graphics for Video Production				3(0-9-0)
		3(3-0-6)	423491	Public Opinion Survey	2(1-2-3)
423406	Webcasting I	3(2-2-5)	Printed Material		
423407	Telecommunication System for Education	3(3-0-6)	423208	Technology in Printed Material	3(3-0-6)
423410	Law and Ethics for Radio and Television Broadcasting	2(2-0-4)	423314	Editing for Printed Materials	2(2-0-4)
423411	Radio and Television Broadcasting Administration	2(2-0-4)	423315	Promotion and Publicity for Printed Materials	2(2-0-4)
423452	Practicum in Video Production		423316	Design and Illustration for Printed Materials	2(2-0-4)
		3(0-9-0)	423364	Printed Materials Production	3(2-2-5)
423453	Webcasting II	1(0-3-0)	423414	Law and Ethics for Printed Materials	
Advertising and Public Relations					2(2-0-4)
423306	Advertising and Public Relations	3(3-0-6)	423415	Printed Material Administration	2(2-0-4)
423310	Principles and Theories of Communications	2(2-0-4)	423454	Desktop Publishing Production	3(2-2-5)
423311	Public Relations Planning	2(2-0-4)	423456	Practicum in Printed Materials Production	3(0-9-0)
423312	Advertising Business	2(2-0-4)	Training		
423313	Advertising and Public Relations Evaluation	2(1-2-3)	423317	Human Behavioral and Learning in Training	3(3-0-6)
423362	Public Relations Media Production	3(2-2-5)	423318	Survey and Analysis of Training Needs	3(2-2-5)
423363	Creation and Production of Advertising Media	3(2-2-5)	423320	Evaluation and Follow-up Training	3(3-0-6)
423412	Law and Ethics for Advertising and Public Relations	2(2-0-4)	423321	Preparation of Being Resource Person for Training	3(2-2-5)
423413	Advertising and Public Relations Administration	2(2-0-4)	423322	Training Techniques	3(2-2-5)

423323	Training Project Management	3(2-2-5)	423333	Artificial Intelligence and Education	3(2-2-5)
423337	Human Resources Development		423334	Web Authoring	3(2-2-5)
	1 : HRD 1	3(2-2-5)	423335	Data Communication in Education	
423338	Human Resources Development				3(2-2-5)
	2 : HRD 2	3(2-2-5)	423336	Data Based Design of Electronic	
423341	Training Project and Academic Content			Resource in Education	3(2-2-5)
		3(2-2-5)	423417	Network Systems Administration	
423408	Field Trip Educational	2(1-2-3)			3(3-0-6)
423416	Training for Industrial Business		423458	Practicum in Network Systems	
		3(3-0-6)		Administration	3(0-9-0)
423457	Practicum in Training	3(0-9-0)		Minor Courses	18 credits
423459	Human Resources Development			Students can select other minor from	
	3 : HRD 3	3(2-2-5)		other faculties in Burapha University on approval	
				of the Head of Department.	
	Computer for Education		4. Free Elective Courses	6 credits	
423324	Computer in Educational Technology			Students may take at least 6 credits as	
		3(2-2-5)		free elective credits from courses provided at	
423325	Computer Assisted Instruction			Burapha University or other universities both in	
		3(2-2-5)		Thailand and abroad to complete the graduation	
423326	Programming Language in Education			requirement.	
		3(2-2-5)			
423327	Authoring System	3(2-2-5)			
423328	Using Computer in School				
	Administration and Management				
		3(2-2-5)			
423329	Computer Graphics	3(2-2-5)			
423330	Computer Multimedia	3(2-2-5)			
423331	Educational Software Development				
		3(2-2-5)			
423332	Cognitive Systems	3(3-0-6)			

**Bachelor of Education Program in
Elementary Education**

Courses Structure

Students are required to take a minimum of 129 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Professional Teaching Courses	40 credits
3. Area of Concentration Courses	53 credits
- Major Courses	35 credits
- Minor Courses	18 credits
4. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3 3-0-6)
212104 English IV	3(3-0-6)

Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
212203 English for Health Sciences I	3(2-2-5)
212204 English for Health Sciences II	3(2-2-5)
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-0-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)

Elective Courses 4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.

2. Professional Teaching Courses 40 credits

401472	Professional Principle	2(2-0-4)
402171	Principle and Concepts of Education	3(3-0-6)
404201	General Methods of Teaching	3(3-0-6)
404301	Principle of Curriculum Development and Curriculum Administration	2(2-0-4)
404351	Professional Experience	2(1-2-3)
404401	Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
404451	Practicum in Curriculum Development	2(1-2-3)
404452	Student Teaching	6(0-30-0)
414301	Guidance for Life	2(2-0-4)
415301	Education Psychology	2(2-0-4)
423301	Instructional Technology	2(2-0-4)
423303	Computer in Education	3(2-2-5)
430216	Education Organization and Management	2(2-0-4)
430234	Quality Assurance	2(2-0-4)
433301	Educational Measurement and Evaluation	3(3-0-6)

434301	Introduction to Educational Research	2(2-0-4)
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3. Area of Concentration Courses 53 credits

	Major Courses	35 credits
	Major Required Courses	27 credits
406205	Curriculum and Instruction of Thai Language Arts	3(3-0-6)
406206	Curriculum and Instruction of Mathematics	3(3-0-6)
406305	Curriculum and Instruction of Science	3(3-0-6)
406306	Curriculum and Instruction of Social Studies Religion and Culture	3(3-0-6)
406307	Curriculum and Instruction of Health and Physical Education	3(3-0-6)
406404	Curriculum and Instruction of Art Education	3(3-0-6)
406405	Curriculum and Instruction of Work Experience and Technology	3(3-0-6)
406406	Curriculum and Instruction of Foreign Language	3(3-0-6)
406407	Curriculum and Instruction of Student Activities for Student Competency	3(3-0-6)
	Major Elective Courses	8 credits
406201	Thai Language Art for Elementary School Teacher	2(2-0-4)
406202	Mathematics for Elementary School Teacher	2(2-0-4)

406203	Science for Elementary School Teacher	2(2-0-4)	406312	Discipline and Classroom Management for Elementary School Teacher	2(2-0-4)
406204	Social Studies Religion and Culture for Elementary School Teacher	2(2-0-4)	406313	Child Study	2(2-0-4)
406207	Education for Special Child	2(2-0-4)	406314	Drama for Elementary School Teacher	2(2-0-4)
406208	Information Management for Elementary School	2(2-0-4)	406371	Seminar in Elementary Education	2(2-0-4)
406209	Classroom Research for Elementary School Teacher	2(2-0-4)	406401	Experience in Local Career	2(2-0-4)
406211	Value Teaching	2(2-0-4)	406402	English for Elementary School Teachers	2(2-0-4)
406212	Reading Teaching	2(2-0-4)	406403	Student Activities for Elementary School Teacher	2(2-0-4)
406213	Media for Elementary School Teacher	2(2-0-4)	406408	Local Study	2(2-0-4)
406214	National Resources and Environment for Elementary School Teacher	2(2-0-4)	406409	Creative Activities	2(2-0-4)
406301	Health and Physical Education for Elementary School Teacher	2(2-0-4)	406411	Children and Literature	2(2-0-4)
406302	Art for Elementary School Teacher	2(2-0-4)	406412	Leadership Training and Youth Activities	2(1-2-3)
406303	Music for Elementary School Teacher	2(2-0-4)	406413	Speech Problems and Correction of Elementary School Students	2(2-0-4)
406304	Thai Classical Dance for Elementary School Teacher	2(2-0-4)	406414	Principles of Nutrition for Elementary School Teachers	2(2-0-4)
406308	Thai Culture Study	2(2-0-4)	406415	Scientific Materials for Elementary School Teacher	
406309	Project Teaching	2(2-0-4)	406491	Independent Study	2(2-0-4)
406311	Creative Writing in the Elementary School	2(2-0-4)		Minor Courses	18 credits

Students can select other minor from other faculties in Burapha University on approval of the Head of Department.

4. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in English

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits
2. Professional Teaching Courses 40 credits
3. Area of Concentration Courses 54 credits
 - Major Required Courses 35 credits
 - Major Elective Courses 19 credits

4. Free Elective Courses 6 credits	
1. General Education Courses 30 credits	
Required Courses 26 credits	
English Group 12 credits	
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3 3-0-6)
212104 English IV	3(3-0-6)
Professional English 6 credits	
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
212203 English for Health Sciences I	3(2-2-5)
212204 English for Health Sciences II	3(2-2-5)
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-0-6)
Thai Group 2 credits	
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	
- Major Required Courses	3 credits
310101 Computer and the Internet	3(2-2-5)

Interdisciplinary Integration Group		423301	Instructional Technology	2(2-0-4)
9 credits		423303	Computer in Education	3(2-2-5)
999101	Interdisciplinary Integration I	430216	Education Organization and Management	2(2-0-4)
	3(3-0-6)	430234	Quality Assurance	2(2-0-4)
999102	Interdisciplinary Integration II	433301	Educational Measurement and Evaluation	3(3-0-6)
	3(3-0-6)	434301	Introduction to Educational Research	
999103	Interdisciplinary Integration III			
	3(3-0-6)			

Elective Courses 4 credits 2(2-0-4)

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.

2. Professional Teaching Courses 40 credits

401472	Professional Principle	2(2-0-4)
402171	Principle and Concepts of Education	3(3-0-6)
404201	General Methods of Teaching	3(3-0-6)
404301	Principle of Curriculum Development and Curriculum Administration	2(2-0-4)
404351	Professional Experience	2(1-2-3)
404401	Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
404451	Practicum in Curriculum Development	2(1-2-3)
404452	Student Teaching	6(0-30-0)
414301	Guidance for Life	2(2-0-4)
415301	Education Psychology	2(2-0-4)

3. Area of Concentration Courses 54 credits

Major Required Courses 35 credits	
212211	Reading Techniques 3(3-0-6)
212212	Analytical Reading 2(2-0-4)
212221	Writing I 2(2-0-4)
212222	Writing II 2(2-0-4)
212231	Oral English I 2(1-2-3)
212232	Oral English II 2(1-2-3)
212241	Background to English Language and Culture 2(2-0-4)
212242	The Novel and the Short Story 2(2-0-4)
212281	English Phonology 2(1-2-2)
212313	Critical Reading 2(2-0-4)
212323	Essay Writing 2(2-0-4)
212324	Summary Writing 2(2-0-4)
212333	Oral English III 2(1-2-3)
212351	Introduction to Poetry 2(2-0-4)
212361	Basic Translation 2(2-0-4)
212382	English Syntax 2(2-0-4)
212483	Contrastive Analysis of English and Thai 2(2-0-4)

	Major Elective Courses	19 credits
212334	Oral Presentation	2(1-2-3)
212343	The English and American Novel	2(2-0-4)
212344	Contemporary Literature	2(2-0-4)
212352	Drama	3(3-0-6)
212362	Translation I	2(2-0-4)
212371	Business English	2(2-0-4)
212372	Business for Workplace	2(1-2-3)
212373	English for Hotel	2(1-2-3)
212374	English for Tourism Industry	2(1-2-3)
212375	English for Domestic Tourism	2(1-2-3)
212376	English for Information Technology	2(1-2-3)
212392	Cross Cultural Experience	3(3-0-6)
212425	Research Paper	2(2-0-4)
212426	Advanced Essay Writing	2(2-0-4)
212427	Creative Writing	2(2-0-4)
212435	Oral Discussion and Debate	2(1-2-3)
212463	Translation of Non-Fiction	2(2-0-4)
212464	Translation of Fiction	2(2-0-4)
212477	English for Printed Media	2(2-0-4)
212478	English for Broadcasting Media	2(1-2-3)
212479	English for Advertising and Public Relations	2(1-2-3)
212493	Independent Study in English Language	2(0-4-2)
212497	Seminar on Selected Topic	2(0-4-2)

212498 Advanced Language Skills for Graduate Studies 2(1-2-3)

4. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in Library and Information Science

Courses Structure

Students are required to take a minimum of 132 credits from the following sections:

- General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits
- Professional Teaching Courses 40 credits
- Area of Concentration Courses 56 credits
 - Major Courses 38 credits

Major Required Courses		
		32 credits
Major Elective Courses		
		6 credits
	- Minor Courses	18 credits
4. Free Elective Courses		6 credits
1. General Education Courses		30 credits
Required Courses		26 credits
English Group		12 credits
Basic English		6 credits
212101	English I	3(3-0-6)
212102	English II	3(3-0-6)
212103	English III	3 3-0-6)
212104	English IV	3(3-0-6)
Professional English		6 credits
212201	English for Humanities and Social Sciences I	3(2-2-5)
212202	English for Humanities and Social Sciences II	3(2-2-5)
212203	English for Health Sciences I	3(2-2-5)
212204	English for Health Sciences II	3(2-2-5)
212205	English for Science and Technology I	3(2-2-5)
212206	English for Science and Technology II	3(2-2-5)
212207	English Communicative Speaking	3(2-2-5)
212208	English Writing Skills	3(3-0-6)
Thai Group		2 credits
208101	Thai Language Skills	2(2-0-4)

Information Technology Group		3 credits
310101	Computer and the Internet	3(2-2-5)

Interdisciplinary Integration Group		9 credits
999101	Interdisciplinary Integration I	3(3-0-6)
999102	Interdisciplinary Integration II	3(3-0-6)
999103	Interdisciplinary Integration III	3(3-0-6)

Elective Courses **4 credits**

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.

2. Professional Teaching Courses		40 credits
401472	Professional Principle	2(2-0-4)
402171	Principle and Concepts of Education	3(3-0-6)
404201	General Methods of Teaching	3(3-0-6)
404301	Principle of Curriculum Development and Curriculum Administration	2(2-0-4)
404351	Professional Experience	2(1-2-3)
404401	Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
404451	Practicum in Curriculum Development	2(1-2-3)

404452	Student Teaching	6(0-30-0)	202409	Library Services and Activities	
414301	Guidance for Life	2(2-0-4)			2(2-0-4)
415301	Education Psychology	2(2-0-4)	202411	Introduction to Information Technology	
423301	Instructional Technology	2(2-0-4)			2(2-1-4)
423303	Computer in Education	3(2-2-5)	202413	Maintenance of Information Materials	
430216	Education Organization and Management	2(2-0-4)			2(2-0-4)
430234	Quality Assurance	2(2-0-4)	202442	Periodicals and Newspapers	2(2-0-4)
433301	Educational Measurement and Evaluation	3(3-0-6)	202491	Introduction to Practicum	1(0-5-0)
434301	Introduction to Educational Research	2(2-0-4)	202492	Practicum	5(0-15-0)
			Major Elective Courses		6 credits
3. Area of Concentration Courses 56 credits			202316	Production of Electronic Media	
	Major Courses	38 credits			2(1-2-3)
	Major Required Courses	32 credits	202331	Information Resources on the Internet	2(1-2-3)
202301	Introduction to Library and Information Science	2(2-0-4)	202343	Information Services in the Social Science	2(2-0-4)
202311	Information Resources Development	2(2-0-4)	202344	Information Services in the Humanities	2(2-0-4)
202312	Subject Analysis	2(2-0-4)	202345	Information Services in the Sciences and Technology	2(2-0-4)
202313	Classification and Cataloging for Information Resources I	2(2-0-4)	202414	Independent Study in Library and Information Science	2(2-0-4)
202314	Classification and Cataloging for Information Resources II	2(2-0-4)	202415	Printing	2(2-0-4)
202315	Library of Congress Classification	3(3-0-6)	202416	Introduction to Research for Librarians	2(2-0-4)
202321	Reference Resources Services	2(2-0-4)	202421	Reading Promotion	2(2-0-4)
202408	Teaching the Use of the Library	3(3-0-6)	202425	Story Telling	2(2-0-4)
			202437	Learning Centers for the Community	2(2-0-4)
			202441	Bibliographic Indexing and Abstracting Services	2(2-0-4)

202446	Children's Literature	2(2-0-4)
202447	Archives and Government	
	Publication	2(2-0-4)
	Minor Courses	18 credits

Students can select other minor from other faculties in Burapha University on approval of the Head of Department.

4. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in Mathematics

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Professional Teaching Courses 40 credits

3. Area of Concentration Course 54 credits

- Basic Required Courses 27 credits

- Major Required Courses 27 credits

4. Free Elective Courses 6 credits

1. General Education Courses 30 credits
Required Courses 26 credits

English Group 12 credits

Basic English 6 credits

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits

212201 English for Humanities and Social Sciences I 3(2-2-5)

212202 English for Humanities and Social Sciences II 3(2-2-5)

212203 English for Health Sciences I 3(2-2-5)

212204 English for Health Sciences II 3(2-2-5)

212205 English for Science and Technology I 3(2-2-5)

212206 English for Science and Technology II 3(2-2-5)

212207 English Communicative Speaking 3(2-2-5)

212208	English Writing Skills	3(3-0-6)	404401	Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
	Thai Group	2 credits			
208101	Thai Language Skills	2(2-0-4)	404451	Practicum in Curriculum Development	2(1-2-3)
	Information Technology Group	3 credits	404452	Student Teaching	6(0-30-0)
310101	Computer and the Internet	3(2-2-5)	414301	Guidance for Life	2(2-0-4)
	Interdisciplinary Integration Group	9 credits	415301	Education Psychology	2(2-0-4)
999101	Interdisciplinary Integration I	3(3-0-6)	423301	Instructional Technology	2(2-0-4)
999102	Interdisciplinary Integration II	3(3-0-6)	423303	Computer in Education	3(2-2-5)
999103	Interdisciplinary Integration III	3(3-0-6)	430216	Education Organization and Management	2(2-0-4)
	Elective Courses	4 credits	430234	Quality Assurance	2(2-0-4)
	A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.		433301	Educational Measurement and Evaluation	3(3-0-6)
	2. Professional Teaching Courses	40 credits	434301	Introduction to Educational Research	2(2-0-4)
401472	Professional Principle	2(2-0-4)			
402171	Principle and Concepts of Education	3(3-0-6)	3. Area of Concentration Courses	54 credits	
404201	General Methods of Teaching	3(3-0-6)		Basic Required Courses	27 credits
404301	Principle of Curriculum Development and Curriculum Administration	2(2-0-4)	302111	Calculus I	3(3-0-6)
404351	Professional Experience	2(1-2-3)	302112	Calculus II	3(3-0-6)
			303101	Chemistry I	3(3-0-6)
			303102	Chemistry II	3(3-0-6)
			303103	Chemistry Laboratory	1(0-3-0)
			306101	General Biology I	3(3-0-6)
			306102	General Biology Laboratory I	1(0-3-0)
			308101	Introductory Physics I	3(3-0-6)
			308102	Introductory Physics II	3(3-0-6)
			308103	Introductory Physics Laboratory I	1(0-3-0)

312201	Elementary Statistics	3(3-0-6)
	Major Required Courses	27 credits
302202	Mathematical Computing	2(1-2-3)
302221	Calculus III	3(3-0-6)
302231	Mathematics for Applications	3(3-0-6)
302241	Principles of Mathematics	3(3-0-6)
302251	Elementary Probability and Applications	3(3-0-6)
302303	Essential Mathematics for Secondary School Teachers I	2(2-0-4)
302304	Essential Mathematics for Secondary School Teachers II	2(2-0-4)
302333	Abstract Algebra I	3(3-0-6)
302342	Theory of Numbers	3(3-0-6)
312211	Statistical Methods	3(3-0-6)
4.	Free Elective Courses	6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in Physics

Courses Structure

Students are required to take a minimum of 141 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Professional Teaching Courses

40 credits

3. Area of Concentration Courses

65 credits

- Basic Required Courses

30 credits

- Major Required Courses

35 credits

4. Free Elective Courses

6 credits

1. General Education Courses

30 credits

Required Courses

26 credits

English Group

12 credits

Basic English

6 credits

212101 English I

3(3-0-6)

212102 English II

3(3-0-6)

212103	English III	3 3-0-6)
212104	English IV	3(3-0-6)
Professional English		6 credits
212201	English for Humanities and Social Sciences I	3(2-2-5)
212202	English for Humanities and Social Sciences II	3(2-2-5)
212203	English for Health Sciences I	3(2-2-5)
212204	English for Health Sciences II	3(2-2-5)
212205	English for Science and Technology I	3(2-2-5)
212206	English for Science and Technology II	3(2-2-5)
212207	English Communicative Speaking	3(2-2-5)
212208	English Writing Skills	3(3-0-6)
Thai Group		2 credits
208101	Thai Language Skills	2(2-0-4)
Information Technology Group		3 credits
310101	Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group		9 credits
999101	Interdisciplinary Integration I	3(3-0-6)
999102	Interdisciplinary Integration II	3(3-0-6)
999103	Interdisciplinary Integration III	3(3-0-6)

Elective Courses

4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.

2. Professional Teaching Courses 40 credits

401472	Professional Principle	2(2-0-4)
402171	Principle and Concepts of Education	3(3-0-6)
404201	General Methods of Teaching	3(3-0-6)
404301	Principle of Curriculum Development and Curriculum Administration	2(2-0-4)
404351	Professional Experience	2(1-2-3)
404401	Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
404451	Practicum in Curriculum Development	2(1-2-3)
404452	Student Teaching	6(0-30-0)
414301	Guidance for Life	2(2-0-4)
415301	Education Psychology	2(2-0-4)
423301	Instructional Technology	2(2-0-4)
423303	Computer in Education	3(2-2-5)
430216	Education Organization and Management	2(2-0-4)
430234	Quality Assurance	2(2-0-4)
433301	Educational Measurement and Evaluation	3(3-0-6)

434301	Introduction to Educational Research	2(2-0-4)
3. Area of Concentration Courses 65 credits		
	Basic Required Courses	30 credits
302111	Calculus I	3(3-0-6)
302112	Calculus II	3(3-0-6)
303101	Chemistry I	3(3-0-6)
303102	Chemistry II	3(3-0-6)
303103	Chemistry Laboratory	1(0-3-0)
306101	General Biology I	3(3-0-6)
306102	General Biology Laboratory I	1(0-3-0)
306103	General Biology II	3(3-0-6)
308101	Introductory Physics I	3(3-0-6)
308102	Introductory Physics II	3(3-0-6)
308103	Introductory Physics Laboratory	1(0-3-0)
312201	Elementary Statistics	3(3-0-6)
	Major Required Courses	35 credits
301491	Scientific Projects	1(0-2-1)
308204	Introductory Physics Laboratory II	1(0-3-0)
308205	Mathematical Physics I	3(3-0-6)
308206	Mathematical Physics II	3(3-0-6)
308207	Mathematical Physics III	3(3-0-6)
308211	Mechanics I	3(3-0-6)
308221	Thermodynamics	3(3-0-6)
308231	Optics	3(3-0-6)
308241	Electricity and Magnetism	3(3-0-6)
308351	Nuclear Physics I	3(3-0-6)
308361	Modern Physics	3(3-0-6)

308371 Elementary Electronics 3(3-0-6)

308372 Elementary Electronics Laboratory 1(0-3-0)

308493 Physics Laboratory 2(0-6-0)

4. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in Social Studies

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits
2. Professional Teaching Courses 40 credits
3. Area of Concentration Courses 54 credits

- Major Required Courses	30 credits
- Major Elective Courses	24 credits
4. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3 3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
212203 English for Health Sciences I	3(2-2-5)
212204 English for Health Sciences II	3(2-2-5)
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-0-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)

Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)

Interdisciplinary Integration Group	9 credits
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999101 Interdisciplinary Integration I	3(3-0-6)
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999102 Interdisciplinary Integration II	3(3-0-6)
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999103 Interdisciplinary Integration III	3(3-0-6)
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Elective Courses	4 credits
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A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.

2. Professional Teaching Courses 40 credits

401472 Professional Principle	2(2-0-4)
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402171 Principle and Concepts of Education	3(3-0-6)
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404201 General Methods of Teaching	3(3-0-6)
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404301 Principle of Curriculum Development and Curriculum Administration	2(2-0-4)
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404351 Professional Experience	2(1-2-3)
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404401 Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
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404451 Practicum in Curriculum Development	2(1-2-3)
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404452	Student Teaching	6(0-30-0)	223212	Introduction to Remote Sensing and Geographic Information System	3(2-2-5)
414301	Guidance for Life	2(2-0-4)	223254	Geomorphology	3(2-2-5)
415301	Education Psychology	2(2-0-4)	223337	Urban Geography	3(2-2-5)
423301	Instructional Technology	2(2-0-4)	223377	Environmental Impact Assessment	3(2-2-5)
423303	Computer in Education	3(2-2-5)	223422	Computer Mapping	3(2-2-5)
430216	Education Organization and Management	2(2-0-4)	223427	Geography Database Management System	3(3-0-6)
430234	Quality Assurance	2(2-0-4)	224221	Thai Politics and Government	3(3-0-6)
433301	Educational Measurement and Evaluation	3(3-0-6)	224241	International Relations	3(3-0-6)
434301	Introduction to Educational Research	2(2-0-4)	224422	Local Government and Politics	3(3-0-6)
3. Area of Concentration Courses 54 credits			246211	Principle of Public Administration	3(3-0-6)
Major Required Courses 30 credits			246241	Public Policy and Planning	3(3-0-6)
203271	Thai History	3(3-0-6)	246342	Project Planning and Management	3(3-0-6)
203272	History of Asia	3(3-0-6)	225211	Cultural Anthropology	3(3-0-6)
203371	History of Western Civilization	3(3-0-6)	225223	Religions and Thai Traditions	3(3-0-6)
203372	The World Today	3(3-0-6)	225311	Rural Sociology	3(3-0-6)
223251	Physical Geography I	3(2-2-5)	225312	Urban Sociology	3(3-0-6)
223252	Physical Geography II	3(2-2-5)	225313	Industrial Sociology	3(3-0-6)
224211	Principle of Political Science	3(3-0-6)	225315	Psychology and Society	3(3-0-6)
225314	Social Problems	3(3-0-6)	225316	Mass Communication and Public Opinion	3(3-0-6)
226211	Microeconomics I	3(3-0-6)	225317	Sociology of Women	3(3-0-6)
226212	Macroeconomics I	3(3-0-6)	225318	Tourism and Sociology	3(3-0-6)
Major Elective Courses 24 credits					
223211	Map Reading and Aerial Photo Interpretation	3(3-2-5)			

225319	Folk Business and Tourism	3(3-0-6)
225411	Social Organization	3(3-0-6)
225412	Political Sociology	3(3-0-6)
225415	Educational Sociology	3(3-0-6)
225417	Information System for Tourism	3(3-0-6)
225418	Training for Tourism	3(3-0-6)
225419	Seminar on Sociology and Tourism	3(3-0-6)
225421	Human Relation for Tourism	3(3-0-6)
225422	Art of Communication	3(3-0-6)
225423	Thai Society and Culture	3(3-0-6)
226321	Agricultural Economics	3(3-0-6)
226331	Economics of Money and Banking	3(3-0-6)
226341	Industrial Economics	3(3-0-6)
226344	Economics of Technology	3(3-0-6)
226351	Economic Development	3(3-0-6)
226352	The Economy of Thailand	3(3-0-6)
226356	Co-operatives	3(3-0-6)
226361	Public Finance	3(3-0-6)
226381	International Economics	3(3-0-6)
4.	Free Elective Courses	6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in Thai

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Professional Teaching Courses

	40 credits
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3. Area of Concentration Courses

	54 credits
- Major Courses	36 credits
Major Required Courses	28 credits
Major Elective Courses	8 credits
- Minor Courses	18 credits
4. Free Elective Courses

	6 credits
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1. General Education Courses	30 credits	Interdisciplinary Integration Group	
Required Courses	26 credits		9 credits
English Group	12 credits	999101 Interdisciplinary Integration I	
Basic English	6 credits		3(3-0-6)
212101 English I	3(3-0-6)	999102 Interdisciplinary Integration II	
212102 English II	3(3-0-6)		3(3-0-6)
212103 English III	3(3-0-6)	999103 Interdisciplinary Integration III	
212104 English IV	3(3-0-6)		3(3-0-6)
Professional English	6 credits	Elective Courses	4 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)	A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.	
212202 English for Humanities and Social Sciences II	3(2-2-5)	2. Professional Teaching Courses	40 credits
212203 English for Health Sciences I	3(2-2-5)	401472 Professional Principle	2(2-0-4)
212204 English for Health Sciences II	3(2-2-5)	402171 Principle and Concepts of Education	3(3-0-6)
212205 English for Science and Technology I	3(2-2-5)	404201 General Methods of Teaching	3(3-0-6)
212206 English for Science and Technology II	3(2-2-5)	404301 Principle of Curriculum Development and Curriculum Administration	2(2-0-4)
212207 English Communicative Speaking	3(2-2-5)	404351 Professional Experience	2(1-2-3)
212208 English Writing Skills	3(3-0-6)	404401 Integrated Curriculum and Instruction of Specific Subject	2(2-0-4)
Thai Group	2 credits	404451 Practicum in Curriculum Development	2(1-2-3)
208101 Thai Language Skills	2(2-0-4)	404452 Student Teaching	6(0-30-0)
Information Technology Group	3 credits	414301 Guidance for Life	2(2-0-4)
310101 Computer and the Internet	3(2-2-5)		

415301	Education Psychology	2(2-0-4)	208264	King Rama II's Works	2(2-0-4)
423301	Instructional Technology	2(2-0-4)	208265	Didactic Literature	2(2-0-4)
423303	Computer in Education	3(2-2-5)	208272	Literary Works for Children	2(2-0-4)
430216	Education Organization and Management	2(2-0-4)	208311	Non-Fiction Writing	3(3-0-6)
430234	Quality Assurance	2(2-0-4)	208312	Business Writing	3(3-0-6)
433301	Educational Measurement and Evaluation	3(3-0-6)	208324	Khmer	2(2-0-4)
434301	Introduction to Educational Research	2(2-0-4)	208325	Development of Thai Text Books	2(2-0-4)
3. Area of Concentration Courses 54 credits			208331	Semantics	2(2-0-4)
	Major Courses	36 credits	208332	Language and Culture	2(2-0-4)
	Major Required Courses	28 credits	208333	Language and Society	2(2-0-4)
208211	Writing I	3(3-0-6)	208335	Historical Linguistics	3(3-0-6)
208213	Analytical Reading	2(2-0-4)	208362	Historical Literature	2(2-0-4)
208231	Linguistics I	3(3-0-6)	208363	Drama	2(2-0-4)
208261	Evolution of Thai Literature	3(3-0-6)	208364	Jataka Literature	3(3-0-6)
208271	Contemporary Literature	2(2-0-4)	208371	Soonthonpoo's Works	2(2-0-4)
208281	Folklore	2(2-0-4)	208373	Translated Literary Works	2(2-0-4)
208322	Pali and Sanskrit in Thai	2(2-0-4)	208381	Research on Folklore	2(2-0-4)
208323	Khmer in Thai	2(2-0-4)	208411	Poetry Writing	3(3-0-6)
208326	Characteristics of the Thai Language	3(3-0-6)	208412	Fiction Writing	3(3-0-6)
208352	Literary Criticism	3(3-0-6)	208421	Logic of Language	2(2-0-4)
208361	Masterpieces of Thai Literature	3(3-0-6)	208422	Khmer Orthography	2(2-0-4)
	Major Elective Courses	8 credits	208423	Thai Inscription	3(3-0-6)
208214	Speed Reading	2(2-0-4)	208424	Language in Mass Media	3(3-0-6)
208215	Oral Reading	2(1-2-3)	208433	Languages in Southeast Asia	2(2-0-4)
208233	Thai Regional Dialects	2(2-0-4)	208434	Linguistics and Thai Literature	2(2-0-4)
208262	Niras	2(2-0-4)	208435	Discourse Analysis	2(2-0-4)
208263	Poetic Tales	2(2-0-4)	208436	Loanwords in Thai	2(2-0-4)
			208462	Literature Based on Thai Customs	2(2-0-4)

208463	Chaopraya Prakanthon's Works	2(2-0-4)	- Interdisciplinary Integration Group	9 credits
208464	Prince Bidyalongkorn's Works	2(2-0-4)	Elective Courses	4 credits
208471	Literature and Musical Art	2(2-0-4)	2. Area of Concentration Courses	90 credits
208472	Political Literature	2(2-0-4)	- Major Professional Courses	23 credits
	Minor Courses	18 credits	- Major Courses	67 credits
	Students can select other minor from other faculties in Burapha University on approval of the Head of Department.		3. Free Elective Courses	6 credits
4. Free Elective Courses	6 credits		1. General Education Courses	30 credits
Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.			Required Courses	26 credits
			English Group	12 credits
			Basic English	6 credits
			212101 English I	3(3-0-6)
			212102 English II	3(3-0-6)
			212103 English III	3 3-0-6)
			212104 English IV	3(3-0-6)
			Professional English	6 credits
			212201 English for Humanities and Social Sciences I	3(2-2-5)
			212202 English for Humanities and Social Sciences II	3(2-2-5)
			212203 English for Health Sciences I	3(2-2-5)
			212204 English for Health Sciences II	3(2-2-5)
			212205 English for Science and Technology I	3(2-2-5)
			212206 English for Science and Technology II	3(2-2-5)
			212207 English Communicative Speaking	3(2-2-5)

Bachelor of Science Program in Exercise and Sport Science

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits

212204	English for Health Sciences II	3(2-2-5)
212205	English for Science and Technology I	3(2-2-5)
212206	English for Science and Technology II	3(2-2-5)
212207	English Communicative Speaking	3(2-2-5)

212208	English Writing Skills	3(3-0-6)	441231	First Aid in Sport Injuries	2(1-2-3)
	Thai Group	2 credits	441331	Computer for Exercise and	
208101	Thai Language Skills	2(2-0-4)		Sport Science	2(1-2-3)
	Information Technology Group		441332	English for Exercise and	
		3 credits		Sport Science I	2(2-0-4)
310101	Computer and the Internet	3(2-2-5)	441333	English for Exercise and	
	Interdisciplinary Integration Group			Sport Science II	2(2-0-4)
		9 credits		Major Courses	67 credits
999101	Interdisciplinary Integration I		Theoretical Courses		45 credits
		3(3-0-6)	441341	Exercise Physiology I	3(2-2-5)
999102	Interdisciplinary Integration II		441342	Exercise Physiology II	2(1-2-3)
		3(3-0-6)	441343	Sport Safety I	2(2-0-4)
999103	Interdisciplinary Integration III		441344	Sport Safety II	2(1-2-3)
		3(3-0-6)	441345	Biomechanics I	3(2-2-5)
Elective Courses		4 credits	441346	Biomechanics II	2(1-2-3)
	A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.				
2. Area of Concentration Courses		90 credits	441347	Test and Evaluation in Physical	
	Major Professional Courses	32 credits		Education and Sport	3(2-2-5)
308207	Mechanics for Physical Education		441348	Learning for Motor Skills	2(2-0-4)
		3(3-0-6)	441381	History and Philosophy of Physical	
316202	Biochemistry for Health Science			Education and Sport	3(2-2-5)
		2(2-0-4)	441384	Sport Psychology	2(2-0-4)
317101	Human Anatomy	2(2-0-4)	441385	Sport Sociology	2(2-0-4)
317102	Human Anatomy Laboratory 1	1(0-3-0)	441386	Psychological Skill Training and	
317205	Human Physiology	3(2-3-4)		Stress Management in Sport	2(1-2-3)
441131	Introduction to Physical Education,		441472	Organization of Sport Competition	
	Exercise and Sport Science	2(2-0-4)			2(2-0-4)
441132	Health and Safety Science	2(2-0-4)	441473	Workplace Exercise and Sport	
				Management	2(2-0-4)
			441474	Sports Nutrition	2(2-0-4)
			441475	Adapted Physical Education	2(2-0-4)

441491	Basic Research in Exercise and Sport Science	2(2-0-4)	Water Sport Courses	1 credits
441492	Senior Project in Exercise and Sport Science	2(1-2-3)	441120	Water Ski 1(0-2-1)
441493	Field Work	6(0-30-0)	441217	Canoeing 1(0-2-1)
	Activity Courses	14 credits	441218	Synchronize Swimming 1(0-2-1)
	Basic Courses	3 credits	441312	Swimming II 1(0-2-1)
441111	Track and Field I	1(0-2-1)	441324	Windsurf I 1(0-2-1)
441112	Swimming	1(0-2-1)	441414	Windsurf II 1(0-2-1)
441117	Gymnastic I	1(0-2-1)	441415	Sailing 1(0-2-1)
	Thai Sport Courses	1 credits	441416	Diving 1(0-2-1)
441122	Muay Thai I	1(0-2-1)	441417	Water Polo 1(0-2-1)
441124	Krabi Krabong I	1(0-2-1)	441421	Life Saving and Water Safety
441213	Takraw and Sepak Takraw	1(0-2-1)		
441322	Muay Thai II	1(0-2-1)	Ball Sport Courses	3 credits
441323	Krabi Krabong II	1(0-2-1)	441113	Basketball I 1(0-2-1)
	Dance Courses	1 credits	441114	Rugby Football I 1(0-2-1)
441125	Aerobic Dance	1(0-2-1)	441115	Football I 1(0-2-1)
441126	Thai Classical Dance	1(0-2-1)	441116	Volleyball I 1(0-2-1)
441212	Rhythmic Activities	1(0-2-1)	441128	Baseball 1(0-2-1)
441214	Modern Dance	1(0-2-1)	441221	Hockey 1(0-2-1)
441219	Social Dance	1(0-2-1)	441222	Softball 1(0-2-1)
441413	Movement Education	1(0-2-1)	441223	Handball 1(0-2-1)
	Racket Courses	2 credits	441313	Basketball II 1(0-2-1)
441118	Tennis I	1(0-2-1)	441314	Rugby Football II 1(0-2-1)
441119	Badminton I	1(0-2-1)	441315	Football II 1(0-2-1)
441210	Soft Tennis	1(0-2-1)	441316	Volleyball II 1(0-2-1)
441211	Table Tennis I	1(0-2-1)		
441310	Table Tennis II	1(0-2-1)	Fight and Self Defense Courses	1 credits
441318	Tennis II	1(0-2-1)	441121	Boxing I 1(0-2-1)
441319	Badminton II	1(0-2-1)	441123	Judo I 1(0-2-1)
			441220	Taekwando 1(0-2-1)
			441229	Fencing 1(0-2-1)

441321	Boxing II	1(0-2-1)	441452	Muay Thai Coaching	2(1-2-3)
441411	Judo II	1(0-2-1)	441453	Judo Coaching	2(1-2-3)
441422	Self Defense	1(0-2-1)	441454	Windsurf Coaching	2(1-2-3)
	Other Courses	2 credits	441455	Table Tennis Coaching	2(1-2-3)
441110	Exercise for Health	1(0-2-1)		Elective Courses	4 credits
441127	Weight Training	1(0-2-1)	441101	Wellness Development	2(2-0-4)
441129	Running for Exercise and Good Health	1(0-2-1)	441281	Physical Education and Recreation in School	2(2-0-4)
441215	Minor Games	1(0-2-1)	441282	Sport and Community Development	2(2-0-4)
441216	Exercise and Weight control	1(0-2-1)	441325	Physical Education in School	2(2-0-4)
441224	Archery	1(0-2-1)	441380	Curriculum in Physical Education	2(1-2-3)
441225	Golf	1(0-2-1)	441382	Human Relation in Sport	2(1-2-3)
441226	Bowling	1(0-2-1)	441383	Innovation in Physical Education Sport	2(1-2-3)
441227	Cycling	1(0-2-1)	441418	Boy and Girl Scouting	2(1-2-3)
441228	Weight Lifting	1(0-2-1)	441461	Communication Technology in Sport	2(2-0-4)
441311	Track and Field II	1(0-2-1)	441462	Sport News Reporting and Writing	2(1-2-3)
441317	Gymnastic II	1(0-2-1)	441463	Sport Business	2(2-0-4)
441361	Stretching in Exercise and Sport	1(0-2-1)	441464	Sport Tourism	2(2-0-4)
441362	Yoga for Health and Sport	1(0-2-1)	441465	Facilities and Equipment in Exercise and Sport Science	2(2-0-4)
	Sport Coaching Courses	4 credits	441471	Scientific Principles of Condition and Training	2(2-0-4)
441351	Track and Field Coaching	2(1-2-3)	441480	Method of Teaching in Physical Education	2(1-2-3)
441352	Swimming Coaching	2(1-2-3)	442311	Folk Activities	2(1-2-3)
441353	Basketball Coaching	2(1-2-3)			
441354	Rugby Football Coaching	2(1-2-3)			
441355	Football Coaching	2(1-2-3)			
441356	Volleyball Coaching	2(1-2-3)			
441357	Gymnastic Coaching	2(1-2-3)			
441358	Tennis Coaching	2(1-2-3)			
441359	Badminton Coaching	2(1-2-3)			
441451	Boxing Coaching	2(1-2-3)			

442312	Camping	2(1-2-3)
42313	Leadership in Recreation and Group Dynamic Program	2(1-2-3)
442314	Camping Leadership	2(1-2-3)
3. Free Elective Courses		10 credits

Students may take at least 10 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Education Program in Educational Technology (Continuing Program)

Courses Structure

Students are required to take a minimum of 77 credits from the following sections:

1. General Education Courses	16 credits
Required Courses	14 credits
- English Group	6 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	3 credits
Elective Courses	2 credits
2. Professional Teaching Courses	25 credits

3. Area of Concentration Courses	30 credits
- Major Required Courses	24 credits
- Major Elective Courses	6 credits
4. Free Elective Courses	6 credits

1. General Education Courses 16 credits

Required Courses 14 credits

English Group	6 credits
Basic English	3 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	3 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	3 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)

999103	Interdisciplinary Integration III	3(3-0-6)	423203	Language for Media Production	3(3-0-6)
Elective Courses		2 credits	423204	Research and Media Development	3(3-0-6)
A minimum requirement for elective courses is 2 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.					
2. Professional Teaching Courses		25 credits	423350	Educational Technology and Communication Equipment Operation	3(2-2-5)
401472	Professional Principle	2(2-0-4)	423352	Computer Application in Education	3(2-2-5)
404201	General Methods of Teaching	3(3-0-6)	423401	Management of Educational Resources	3(3-0-6)
Major Elective Courses		6 credits	General Major Elective Courses		
404301	Principle of Curriculum Development and Curriculum Administration	2(2-0-4)	423200	Instructional Message Design	3(3-0-6)
404351	Professional Experience	2(1-2-3)	423205	Electronics for Instructional Media	3(3-0-6)
415301	Education Psychology	2(2-0-4)	423206	Educational Technology and Innovation	3(3-0-6)
423301	Instructional Technology	2(2-0-4)	423302	Information Technology	2(2-0-4)
423304	Technology of Human Resources Management	3(3-0-6)	423340	Courseware Production for Teleconferencing System	3(2-2-5)
423450	Integrated Activities in Educational Technology	3(2-2-5)	423402	Educational Technology Local Wisdom	3(3-0-6)
423471	Seminar in Educational Technology	3(2-2-5)	423403	Law for Educational Technology and Communication	3(3-0-6)
430234	Quality Assurance	2(2-0-4)	423409	AV System Design and Utilization	2(2-0-4)
433301	Educational Measurement and Evaluation	3(3-0-6)	423418	Systems Thinking Skill and Educational Technology and Communication Tasks	3(3-0-6)
3. Area of Concentration Courses		30 credits			
Major Required Courses		24 credits			
423201	Instructional Design	3(3-0-6)			
423202	Graphics for Education	3(3-0-6)			

423471 Seminar in Education Technology	3(2-2-5)	423406 Webcasting I	3(2-2-5)
	3(2-2-5)	423407 Telecommunication System for	
423490 Educational Technology Thesis	3(2-2-5)	Education	3(3-0-6)
	3(2-2-5)	423410 Law and Ethics for Radio and	
Still Pictures and Motion Pictures		Television Broadcasting	2(2-0-4)
423207 Technology in Photography	3(3-0-6)	423411 Radio and Television Broadcasting	
423353 Still Pictures Photography I	3(2-2-5)	Administration	2(2-0-4)
423354 Still Pictures Photography II	3(2-2-5)	423452 Practicum in Video Production	
423355 Still Pictures Photography III	3(2-2-5)		3(0-9-0)
	3(2-2-5)	423453 Webcasting II	1(0-3-0)
423356 Still Pictures Photography IV	3(2-2-5)	Advertising and Public Relations	
	3(2-2-5)	423306 Advertising and Public Relations	
423357 Photography for Communication	3(2-2-5)		3(3-0-6)
	3(2-2-5)	423310 Principles and Theories of	
423404 Motion Picture Production	3(2-2-5)	Communications	2(2-0-4)
Radio and Television Broadcasting		423311 Public Relations Planning	2(2-0-4)
423307 The Mass Media and Education	3(3-0-6)	423312 Advertising Business	2(2-0-4)
	3(3-0-6)	423313 Advertising and Public Relations	
423308 Introduction to Broadcasting	3(3-0-6)	Evaluation	2(1-2-3)
423309 Video Production I	3(2-2-5)	423362 Public Relations Media Production	
423358 Radio Broadcasting Program and			3(2-2-5)
Electronic Media Production I	3(2-2-5)	423363 Creation and Production of	
	3(2-2-5)	Advertising Media	3(2-2-5)
423359 Radio Broadcasting Program and		423412 Law and Ethics for Advertising and	
Electronic Media Production II	3(2-2-5)	Public Relations	2(2-0-4)
	3(2-2-5)	423413 Advertising and Public Relations	
423360 Practicum in Radio Broadcasting		Administration	2(2-0-4)
Program Production	3(0-9-0)	423455 Practicum in Public Relations	
423361 Video Production II	3(2-2-5)		3(0-9-0)
423405 Graphics for Video Production	3(3-0-6)	423491 Public Opinion Survey	2(1-2-3)
	3(3-0-6)		

Printed Material

423208 Technology in Printed Material
3(3-0-6)

423314 Editing for Printed Materials 2(2-0-4)

423315 Promotion and Publicity for Printed
Materials 2(2-0-4)

423316 Design and Illustration for Printed
Materials 2(2-0-4)

423364 Printed Materials Production 3(2-2-5)

423414 Law and Ethics for Printed Materials
2(2-0-4)

423415 Printed Material Administration
2(2-0-4)

423454 Desktop Publishing Production
3(2-2-5)

423456 Practicum in Printed Materials
Production 3(0-9-0)

Training

423317 Human Behavioral and Learning in
Training 3(3-0-6)

423318 Survey and Analysis of Training Needs
3(2-2-5)

423320 Evaluation and Follow-up Training
3(3-0-6)

423321 Preparation of Being Resource Person
for Training 3(2-2-5)

423322 Training Techniques 3(2-2-5)

423323 Training Project Management
3(2-2-5)

423337 Human Resources Development
1 : HRD 1 3(2-2-5)

423338 Human Resources Development
2 : HRD 2 3(2-2-5)

423341 Training Project and Academic Content
3(2-2-5)

423408 Field Trip Educational 2(1-2-3)

423416 Training for Industrial Business

3(3-0-6)

423457 Practicum in Training 3(0-9-0)

423459 Human Resources Development

3 : HRD 3 3(2-2-5)

Computer for Education

423303 Computer in Education 3(2-2-5)

423324 Computer in Educational Technology

3(2-2-5)

423325 Computer Assisted Instruction

3(2-2-5)

423326 Programming Language in Education
3(2-2-5)

423327 Authoring System 3(2-2-5)

423328 Using Computer in School
Administration and Management
3(2-2-5)

423329 Computer Graphics 3(2-2-5)

423330 Computer Multimedia 3(2-2-5)

423331 Educational Software Development
3(2-2-5)

423332 Cognitive Systems 3(3-0-6)

423333 Artificial Intelligence and Education
3(2-2-5)

423334 Web Authoring 3(2-2-5)

423335	Data Communication in Education		- Interdisciplinary Integration
		3(2-2-5)	Group 3 credits
423336	Data Based Design of Electronic		Elective Courses 2 credits
	Resource in Education	3(2-2-5)	2. Professional Teaching Courses
423417	Network Systems Administration		24 credits
		3(3-0-6)	3. Area of Concentration Courses
423458	Practicum in Network Systems		32 credits
	Administration	3(0-9-0)	- Major Required Courses 17 credits
			- Major Elective Courses 15 credits
4. Free Elective Courses		6 credits	4. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

**Bachelor of Education Program in
Industrial Technology Education
(Continuing Program)**

Courses Structure

Students are required to take a minimum of 78 credits from the following sections:

1. General Education Courses

	16 credits
Required Courses	14 credits
- English Group	6 credits
- Thai Group	2 credits
- Information Technology Group	3 credits

1. General Education Courses	16 credits
Required Courses	14 credits
English Group	6 credits
Basic English	3 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	3 credits
212201 English for Humanities and	
Social Sciences I	3(2-2-5)
212202 English for Humanities and	
Social Sciences II	3(2-2-5)
212207 English Communicative	
Speaking	3(2-2-5)
212208 English Writing Skills	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)

Interdisciplinary Integration Group	
	3 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)

Elective Courses 2 credits

A minimum requirement for elective courses is 2 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.

2. Professional Teaching Courses 24 credits

401472 Professional Principle	2(2-0-4)
404201 General Methods of Teaching	3(3-0-6)
404301 Principle of Curriculum Development and Curriculum Administration	2(2-0-4)
404351 Professional Experience	2(1-2-3)
404452 Student Teaching	6(0-30-0)
415301 Education Psychology	2(2-0-4)
423301 Instructional Technology	2(2-0-4)
430234 Quality Assurance	2(2-0-4)
433301 Educational Measurement and Evaluation	3(3-0-6)

3. Area of Concentration Courses 32 credits

Major Required Courses 17 credits

437311 Organization and Industrial Management	3(3-0-6)
437312 Investment Feasibility Study	3(3-0-6)
437330 Computer Based Training	3(2-2-5)
437350 Mathematical and Statistics for Industrial	2(2-0-4)
437401 Principles of Teaching Industrial Subjects	2(2-0-4)
437410 Industrial Safety and Accident Prevention	2(2-0-4)
437490 Independent Study	2(1-2-5)

Major Elective Courses 15 credits

Electrical Group	
310222 C Programming	3(2-2-5)
437354 Computer Aided Circuit Analysis and Design	3(2-2-5)
515231 Electrical Machine	3(2-3-4)
515251 Engineering Electronics	3(2-3-4)
515331 Illumination Engineering	3(3-0-6)
515332 Electrical Power System Analysis	3(2-3-4)
Electronics Group	
308343 Basic Electrical Circuit Analysis	3(3-0-6)
308371 Elementary Electronics	3(3-0-6)
308372 Elementary Electronics Laboratory	1(0-3-0)
308373 Digital Electronics	3(3-0-6)

303374	Microcontroller and Applications	3(3-0-6)	321341	Information Systems Concept	3(3-0-6)
308375	Microcontroller and Applications laboratory	1(0-3-0)	321342	management Information Systems	3(3-0-6)
308377	Industrial Electronics Laboratory	1(0-3-0)	321442	Office Management Information Center	3(3-0-6)
308472	Computer Control and Industrial Application	3(3-0-6)	321483	Multimedia Technology Presentation	3(2-2-5)
308473	Computer Control and Industrial Application Laboratory	1(0-3-0)		Production Technology Group	
308474	Measuring Instruments and Process Control	3(3-0-6)	310222	C Programming	3(2-2-5)
310222	C Programming	3(2-2-5)	437351	Computer-Aided Drafting and Design	3(2-2-5)
437354	Computer Aided Circuit Analysis and Design	3(2-2-5)	437352	CNC Programming	3(2-2-5)
	Computer Group		437353	Introduction to CAD/CAM	3(2-2-5)
310212	Introduction to Computer Science	3(2-2-5)	437451	PLC Programming for Industrial	3(2-2-5)
310214	Data Structure and Algorithms	3(2-2-5)	437425	Engineering Metrology	3(2-2-5)
310222	C Programming	3(2-2-5)		4. Free Elective Courses	6 credits
310312	System Analysis and Design	3(3-0-6)		Students may take at least 6 credits as	
310324	Object-Oriented Programming	3(2-2-5)		free elective credits from courses provided at	
310341	Database System	3(3-0-6)		Burapha University or other universities both in	
310371	Internet Technologies	3(3-0-6)		Thailand and abroad to complete the graduation	
310381	Computer in Business	3(2-2-5)		requirement.	
310471	Electronic Commerce	3(3-0-6)			

Bachelor of Education Program in Music Education (Continuing Program)

Courses Structure

Students are required to take a minimum of 76 credits from the following sections:

1. General Education Courses	16 credits
Required Courses	14 credits
- English Group	6 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	3 credits
Elective Courses	2 credits
2. Professional Teaching Courses	24 credits
3. Area of Concentration Courses	30 credits
- Major Required Courses	7 credits
- Major Elective Courses	23 credits
4. Free Elective Courses	6 credits
1. General Education Courses	16 credits
Required Courses	14 credits
English Group	6 credits
Basic English	3 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)

Professional English	3 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	3 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	2 credits
A minimum requirement for elective courses is 2 credits. Students can select from General Education Courses which are offered in other faculties by General Education Courses Manual (2002), Burapha University.	
2. Professional Teaching Courses	24 credits
401472 Professional Principle	2(2-0-4)
404201 General Methods of Teaching	3(3-0-6)

404301	Principle of Curriculum Development and Curriculum Administration	2(2-0-4)	627186	Culture Relevant to Music	3(2-2-5)
404351	Professional Experience	2(1-2-3)	627187	Fundamental of Theater	2(2-0-4)
404452	Student Teaching	6(0-30-0)	627188	Music and Audio Visual	2(2-0-4)
415301	Education Psychology	2(2-0-4)	627203	Thai Music Iv	3(2-2-5)
423301	Instructional Technology	2(2-0-4)	627204	Thai Music V	3(2-2-5)
430234	Quality Assurance	2(2-0-4)	627205	Thai Music VI	3(2-2-5)
433301	Educational Measurement and Evaluation	3(3-0-6)	627211	Pleng Na-Pat I	3(2-2-5)
3. Area of Concentration Courses 30 credits			627212	Pleng Na-Pat II	3(2-2-5)
Major Required Courses 7 credits			627213	Pleng Tayoy	3(2-2-5)
626171	Music Education in Thailand	3(3-0-6)	627214	Pleng Mahori	3(2-2-5)
626181	Theory of Western Music Notation	2(2-0-4)	627215	Thai Folk Music	3(2-2-5)
626191	Music Education	2(2-0-4)	627216	Pleng Deaw	3(2-2-5)
Major Elective Courses 23 credits			627217	Pipat Mon	3(2-2-5)
Thai Music Group			627218	Pipat Dug Dum-Bun	3(2-2-5)
627101	Thai Music II	3(2-2-5)	627219	Pipat Nanghong	3(2-2-5)
627102	Thai Music III	3(2-2-5)	627222	Form and Analysis of Thai Music	3(2-2-5)
627121	Thai Music Composition I	2(1-2-3)	627223	Thai Music Composition II	2(1-2-3)
627132	Introduction to Ethnomusicology	3(3-0-6)	627224	Thai Music Variations	3(3-0-6)
627133	Introduction to Music Business	2(2-0-4)	627231	Thai Music Review	2(1-2-3)
627151	History of Thai Music	2(2-0-4)	627234	Music Project Management	3(2-2-5)
627161	Thai Classical Singing	2(2-0-4)	627241	Creative Thai Music	3(2-2-5)
627172	Theory of Thai Music	2(2-0-4)	627242	Contemporary Music	3(2-2-5)
627173	Music Computer	3(3-0-6)	627283	Kreungnang	3(2-2-5)
627182	Thai Music Notation	2(2-0-4)	627284	Independent Study	2(1-3-2)
627185	Music and Theater	2(1-2-3)	627291	Seminar and Research in Music Education	3(3-0-6)
			629292	Music Training Project of Academic Content	3(1-4-4)
			627293	Music Thesis	6(2-8-8)

Western Music Group			628260 Opera and Musical Comedies	
628101	Western Music II	3(2-2-5)		2(2-0-4)
628102	Western Music III	3(2-2-5)	628261	Choral Class 2(1-2-3)
628112	Recorder I	2(1-2-3)	628291	Military Band Teaching 3(2-2-5)
628113	Recorder II	2(1-2-3)	628292	Solo 3(2-2-5)
628203	Western Music IV	3(2-2-5)	4. Free Elective Courses	6 credits
628204	Western Music V	3(2-2-5)	Students may take at least 6 credits as	
628205	Western Music VI	3(2-2-5)	free elective credits from courses provided at	
628206	Ensemble	3(2-2-5)	Burapha University or other universities both in	
628207	Keyboard	2(1-2-3)	Thailand and abroad to complete the graduation	
628211	Principle of Military Band	2(2-0-4)	requirement or select from the following list.	
628221	Harmony and Oral Training	2(1-2-3)	629306	Recorder 2(1-3-2)
628222	Arranging for Band	3(3-0-6)	629334	Survey of Thai Music 2(2-0-4)
628224	Forms and Analysis I	3(3-0-6)	629335	Maintenance of Thai Instrument
628225	Arranging for Children Songs	3(2-2-5)		3(3-0-6)
628226	Forms and Analysis II	3(3-0-6)	629336	Thai Ensemble 2(1-3-2)
628227	Management of Music Band and Management of Music Business	3(2-2-5)	629342	Acting I 2(1-3-2)
628251	History of Western Music	3(3-0-6)	629343	Acting II 2(1-3-2)
628252	Music in the Baroque Era	2(2-0-4)	629344	Jazz Dance 2(1-1-4)
628253	Music in The Rococo and Classical Era	2(2-0-4)	629345	Stage Make-up 2(1-1-4)
628254	Pre-baroque Music	2(2-0-4)	629346	Stage Movement 2(1-1-4)
628255	Music in the Romantic Era	2(2-0-4)	629347	Play Write 2(2-0-4)
628256	Music in the 20 th Century	2(2-0-4)	629348	Directing 2(2-0-4)
628257	International Music	2(2-0-4)	629349	Music Therapy 2(2-0-4)
628258	Music and Health Rituals	2(2-0-4)	629362	Western Music Singing 2(1-3-2)
628259	History of jazz music	2(2-0-4)	629365	Thai Country Singing 2(1-1-4)
			629386	Khon 2(1-1-4)
			629437	Music Appreciation 2(2-0-4)
			629438	Thai Dramatic 2(1-3-2)





UNIVERSITY OF MASSACHUSETTS
FACULTY OF ENGINEERING

Faculty of Engineering

Faculty of Engineering

Background

The Faculty of Engineering was established in 1994. At present, students in the Faculty of Engineering are required to complete 4 years of course work. The program is divided into 5 majors.

Departments

1. Department of Chemical Engineering
2. Department of Industrial Engineering
3. Department of Civil Engineering
4. Department of Electrical Engineering
5. Department of Mechanical Engineering

Degrees Offered

The Faculty of Engineering offers 5 Bachelor level degrees

1. Bachelor of Engineering (B.Eng., Chemical Engineering)
2. Bachelor of Engineering (B.Eng., Industrial Engineering)
3. Bachelor of Engineering (B.Eng., Civil Engineering)
4. Bachelor of Engineering (B.Eng., Electrical Engineering)
5. Bachelor of Engineering (B.Eng., Mechanical Engineering)

Bachelor of Engineering Program in Chemical Engineering

Courses Structure

Students are required to take a minimum of 145 credits from the following sections:

1. General Education Courses
30 credits
Required Courses 26 credits
- English Group 12 credits
- Thai Group 2 credits
- Information Technology Group 3 credits
- Interdisciplinary Integration Group 9 credits
Elective Courses 4 credits
2. Area of Concentration Course
109 credits
- Basic Science Course 21 credits
- Basic Engineering 23 credits
- Required Professional Courses 59 credits
- Elective Professional Courses 6 credits
3. Free Elective Courses 6 credits

1. General Education Courses 30 credits**Required Courses 26 credits****English Group 12 credits****Basic English 6 credits**

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits212205 English for Science and Technology I
3(2-2-5)212206 English for Science and Technology II
3(2-2-5)**Thai Group 2 credits**

208101 Thai Language Skills 2(2-0-4)

**Information Technology Group
3 credits**

310101 Computer and the Internet 3(3-0-6)

**Interdisciplinary Integration Group
9 credits**999101 Interdisciplinary Integration I
3(3-0-6)999102 Interdisciplinary Integration II
3(3-0-6)999103 Interdisciplinary Integration III
3(3-0-6)**Elective Courses 4 credits**

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 109 credits**Basic Science Course 21 credits**

302111 Calculus I 3(3-0-6)

302112 Calculus II 3(3-0-6)

302216 Calculus of Several Variables
3(3-0-6)

303104 General Chemistry 3(3-0-6)

303105 General Chemistry Laboratory
1(0-3-0)

308101 Introductory Physics I 3(3-0-6)

308102 Introductory Physics II 3(3-0-6)

308103 Introductory Physics Laboratory I
1(0-3-0)308204 Introductory Physics Laboratory II
1(0-3-0)**Basic Engineering 21 credits**

510101 Engineering Drawing 3(2-3-4)

510181 Engineering Mechanics 3(3-0-6)

515201 Fundamental of Electrical
Engineering I 3(3-0-6)515202 Fundamental of Electrical
Engineering Laboratory I 1(0-3-0)515211 Computer Programming for
Engineering 3(2-3-4)525223 Chemical Engineering
Thermodynamics I 3(3-0-6)525231 Fluid Mechanics for Chemical
Engineering 3(2-3-4)525371 Engineering Materials and Selection
3(3-0-6)

525391	Chemical Engineering Practical Training	1(0-6-0)	525372	Chemical Process Industries	1(1-0-2)
	Required Professional Courses	59 credits	525434	Transport Phenomena	3(3-0-6)
525101	Research Methodology	1(1-0-2)	525452	Chemical Engineering Laboratory II	2(1-3-2)
525202	Organic Chemistry for Chemical Engineering	3(3-0-6)	525461	Process Dynamics and Control	3(3-0-6)
525203	Organic Chemistry for Chemical Engineering Laboratory	1(0-3-0)	525462	Chemical Engineering Economics and Cost Estimation	3(3-0-6)
525211	Analytical and Instrumental Chemistry	3(3-0-6)	525463	Chemical Engineering Plant Design	3(3-0-6)
525212	Analytical and Instrumental Chemistry Laboratory	1(0-3-0)	525473	Safety in Chemical Operations	3(3-0-6)
525213	Chemical Engineering Principles and Calculations	3(3-0-6)	525497	Chemical Engineering Seminar	1(0-2-1)
525214	Applied Mathematics for Chemical Engineering I	3(3-0-6)	525498	Chemical Engineering Project I	1(0-2-1)
525221	Physical Chemistry for Chemical Engineering	3(3-0-6)	525499	Chemical Engineering Project II	3(0-6-3)
525222	Physical Chemistry for Chemical Engineering Laboratory	1(0-3-0)		Elective Professional Courses 6credits	
525224	Chemical Engineering Thermodynamics II	3(3-0-6)	525416	Applied Computer for Chemical Engineering	3(3-0-6)
525315	Applied Mathematics for Chemical Engineering II	3(3-0-6)	525442	Catalytic Reactor Design	3(3-0-6)
525332	Heat Transfer	3(3-0-6)	525474	Polymer Engineering and Science	3(3-0-6)
525333	Mass Transfer	3(3-0-6)	525481	Biochemical Engineering	3(3-0-6)
525341	Chemical Engineering Kinetics and Reactor Design	3(3-0-6)	525482	Natural Gas and Petroleum Technology	3(3-0-6)
525351	Chemical Engineering Laboratory I	2(1-3-2)	525483	Membrane Technology	3(3-0-6)
			525484	Sugar Processing and Industry	3(3-0-6)
			525485	Pulp and Paper Technology	3(3-0-6)

525486	Pollution Control and Waste Treatment	3(3-0-6)
525492	Selected Topics in Chemical Engineering I	3(3-0-6)
525493	Selected Topics in Chemical Engineering II	3(3-0-6)
525496	Research and Development	3(3-0-6)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Engineering Program in Civil Engineering

Courses Structure

Students are required to take a minimum of 149 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Area of Concentration Course

		113 credits
	- Basic Science	21 credits
	- Basic Engineering	25 credits
	- Required Professional Courses	58 credits
	- Elective Professional Courses	9 credits
3. Free Elective Courses		6 credits
1. General Education Courses		30 credits
Required Courses		26 credits
English Group		12 credits
Basic English		6 credits
212101 English I		3(3-0-6)
212102 English II		3(3-0-6)
212103 English III		3(3-0-6)
212104 English IV		3(3-0-6)
Professional English		6 credits
212205 English for Science and Technology I		3(2-2-5)
212206 English for Science and Technology II		3(2-2-5)
Thai Group		2 credits
208101 Thai Language Skills		2(2-0-4)
Information Technology Group		3 credits
310101 Computer and the Internet		3(3-0-6)
Interdisciplinary Integration Group		9 credits
999101 Interdisciplinary Integration I		3(3-0-6)
999102 Interdisciplinary Integration II		3(3-0-6)

999103	Interdisciplinary Integration III		520101	Statics	3(3-0-6)
		3(3-0-6)	520202	Hydraulics	3(3-0-6)
Elective Courses		4 credits	520203	Hydraulics Laboratory	1(0-3-0)
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from General Education Courses Manual (2002), Burapha University.			520204	Strength of Materials I	3(3-0-6)
2. Area of Concentration Courses		143 credits	520491	Civil Engineering Practical Training	1(0-6-0)
			Required Professional Courses		
					58 credits
	Basic Science	21 credits	520205	Strength of Materials II	2(2-0-4)
302111	Calculus I	3(3-0-6)	520221	Surveying	3(2-3-4)
302112	Calculus II	3(3-0-6)	520241	Theory of Structures	3(3-0-6)
302216	Calculus of Several Variables		520281	Hydrology	3(3-0-6)
		3(3-0-6)	520322	Surveying Engineering	3(2-3-4)
303104	General Chemistry	3(3-0-6)	520323	Survey Field Practice	1(0-3-0)
303105	General Chemistry Laboratory		520331	Material Testing Laboratory	1(0-3-0)
		1(0-3-0)	520332	Concrete Technology	2(1-3-2)
308101	Introductory Physics I	3(3-0-6)	520342	Structural Analysis	3(3-0-6)
308102	Introductory Physics II	3(3-0-6)	520343	Reinforce Concrete Design	3(3-0-6)
308103	Introductory Physics Laboratory I		520351	Statistics and Economics for Decision Making	3(3-0-6)
		1(0-3-6)	520361	Soil Mechanics	3(3-0-6)
308204	Introductory Physics Laboratory II		520362	Soil Mechanics Laboratory	1(0-3-0)
		1(0-3-6)	520371	Transportation Engineering	3(3-0-6)
	Basic Engineering	25 credits	520372	Highway Engineering	3(3-0-6)
505101	Engineering Workshop Practice		520373	Highway Engineering Laboratory	1(0-3-0)
		2(1-5-0)	520382	Water Supply and Sanitary Engineering	3(3-0-6)
505202	Engineering Materials	3(3-0-6)	520444	Timber and Steel Design	3(3-0-6)
510101	Engineering Drawing	3(2-3-4)	520452	Construction Management	3(3-0-6)
510202	Dynamics	3(3-0-6)	520463	Foundation Engineering	3(3-0-6)
515211	Computer Programming for Engineering	3(2-3-4)			

520483	Hydraulics Engineering	3(3-0-6)
520484	Hydraulics Engineering Laboratory	1(0-3-0)
520498	Civil Engineering Project I	1(0-3-0)
520499	Civil Engineering Project II	3(0-9-0)
	Elective Professional Course	9 credits
520433	Highway Materials	3(3-0-6)
520434	Durability of Concrete	3(3-0-6)
520445	Construction Techniques	3(3-0-6)
520446	Bridge Design	3(3-0-6)
520447	Building Design	3(3-0-6)
520448	Prestressed Concrete	3(3-0-6)
520453	Project Planning and Management	3(3-0-6)
520464	Engineering Geology	3(2-3-4)
520465	Soil Dynamics	3(3-0-6)
520466	Soil Improvement	3(3-0-6)
520474	Pavement Design	3(3-0-6)
520475	Traffic Engineering	3(3-0-6)
520485	Drainage Engineering	3(3-0-6)
520486	Water Resources Engineering	3(3-0-6)
520487	Coastal Engineering	3(3-0-6)
520492	Environmental Systems and Management	3(3-0-6)
520493	Safety and Construction Laws	3(3-0-6)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in

Thailand and abroad to complete the graduation requirement.

Bachelor of Engineering Program in Electrical Engineering

Courses Structure

Students are required to take a minimum of 150 credits from the following sections:

1. General Education Courses
 - 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits
2. Area of Concentration Course
 - 114 credits
 - Basic Science 27 credits
 - Basic Engineering 27 credits
 - Required Professional Courses 30 credits
 - Elective Professional Courses 30 credits
3. Free Elective Courses 6 credits

1. General Education Courses 30 credits**Required Courses 26 credits****English Group 12 credits****Basic English 6 credits**

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits

212201 English for Humanities and Social Sciences I 3(2-2-5)

212202 English for Humanities and Social Sciences II 3(2-2-5)

212203 English for Health Sciences I 3(2-2-5)

212204 English for Health Sciences II 3(2-2-5)

212205 English for Science and Technology I 3(2-2-5)

212206 English for Science and Technology II 3(2-2-5)

212207 English Communicative Speaking 3(2-2-5)

212208 English Writing Skills 3(2-0-6)

Thai Group 2 credits

208101 Thai I 2(2-0-4)

Information Technology Group 3 credits

310101 Computer and the Internet 3(3-0-6)

Interdisciplinary Integration**Group 9 credits**

999101 Interdisciplinary Integration I 3(3-0-6)

999102 Interdisciplinary Integration II 3(3-0-6)

999103 Interdisciplinary Integration III 3(3-0-6)

Elective Courses 4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 114 credits**Basic Science 27 credits**

302111 Calculus I 3(3-0-6)

302112 Calculus II 3(3-0-6)

302216 Calculus of Several Variables 3(3-0-6)

302281 Ordinary Differential Equations 3(3-0-6)

312204 Statistics For Engineer 3(3-0-6)

308101 Introductory Physics I 3(3-0-6)

308102 Introductory Physics II 3(3-0-6)

308103 Introductory Physics Laboratory I 1(0-3-6)

308204 Introductory Physics Laboratory II 1(0-3-6)

303104 General Chemistry 3(3-0-6)

303105	General Chemistry Laboratory	1(0-3-0)	515493	Electrical Engineering Project I	3(0-9-0)
	Basic Engineering	27 credits	515494	Electrical Engineering Project II	
505101	Engineering Workshop Practice	2(1-5-0)			3(0-9-0)
				Elective Professional Courses	
505202	Engineering Materials	3(3-0-6)			30 credits
510101	Engineering Drawing	3(2-3-4)	Group 1 Electronically Engineering		
510181	Engineering Mechanics	3(3-0-6)	515341	Digital Signal Processing	3(3-0-6)
515112	Electric Circuit	3(2-3-4)	515342	Sensors and Transducers	3(3-0-6)
515211	Computer Programming for Engineering	3(2-3-4)	515343	Electronics Circuit Analysis	3(3-0-6)
515213	Engineering Electronics	3(2-3-4)	515344	Microelectronics Design	3(3-0-6)
515314	Control System	3(2-3-4)	515345	Opto Electronics	3(3-0-6)
515315	Electromagnetic Fields	3(3-0-6)	515446	Mechatronics System	3(3-0-6)
515416	Electrical Engineering Practical Training	1(0-3-0)	515447	Real Time System	3(3-0-6)
	Required Professional Courses		515448	Integrated Circuit and VLSI Design	3(3-0-6)
		30 credits	515449	Communication and Control Electronics	3(3-0-6)
505221	Engineering Management	3(3-0-6)	Group 2 Computer Engineering		
515217	Electrical Instrument and Measurement	3(3-0-6)	515361	Computer Programming Technique	3(2-3-4)
515218	Electrical Machine	3(2-3-4)	515362	Assembly Language Technique	3(2-3-4)
515219	Digital Electronics	3(2-3-4)	515363	Computer Graphic Engineering	3(3-2-4)
515220	Computer Technology	3(2-3-4)	515364	Microprocessor and Interfacing	3(3-0-6)
515321	Electrical Engineering Mathematics	3(3-0-6)	515365	Computer Operating System	3(2-3-4)
515322	Data Communication and Network	3(3-0-6)	515366	Unix	3(2-3-4)
515391	Seminars	1(1-0-2)	515467	Image Processing	3(3-0-6)
515392	Independent Study	2(0-6-0)			

515468	Introduction to Artificial Intelligence	3(3-0-6)
515469	Software Engineering	3(3-0-6)
Group 3 Telecommunication Engineering		
515315	Digital Communication	3(3-0-6)
515322	Communication Network and Transmission Lines	3(3-0-6)
515373	Microwave Engineering	3(3-0-6)
515374	Telephone Engineering	3(3-0-6)
515375	Communication Engineering	3(3-0-6)
515476	Optical Communication	3(3-0-6)
515477	Antenna Engineering	3(3-0-6)
515475	Radio Wave Propagation	3(3-0-6)
515479	Communication Channel	3(3-0-6)
Group 4 Electrical Power		
515331	Illumination Engineering	3(3-0-6)
515332	Electrical Power System Analysis	3(2-3-4)
515333	Electrical System Design	3(3-0-6)
515434	Power Electronics	3(3-0-6)
515435	Protection and Relay	3(2-3-4)
515436	Power Plant and Substation	3(3-0-6)
515437	High-Voltage Engineering	3(3-0-6)
515438	Electric Circuit Analysis	3(3-0-6)
515439	Electric Drive	3(3-0-6)
3. Free Elective Courses		6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Engineering Program in Industrial Engineering

Courses Structure

Students are required to take a minimum of 149 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Area of Concentration Course

	113 credits
- Basic Science and Mathematics Course	21 credits
- Basic Engineering	24 credits
- Required Professional Courses	59 credits
- Elective Professional Courses	9 credits

3. Free Elective Courses 6 credits

1. General Education Courses 30 credits**Required Courses 26 credits****English Group 12 credits****Basic English 6 credits**

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits

212205 English for Science and Technology I

3(2-2-5)

212206 English for Science and Technology II

3(2-2-5)

Thai Group 2 credits

208101 Thai I 2(2-0-4)

Information Technology Group**3 credits**

310101 Computer and the Internet 3(3-0-6)

Interdisciplinary Integration Group**9 credits**

999101 Interdisciplinary Integration I

3(3-0-6)

999102 Interdisciplinary Integration II

3(3-0-6)

999103 Interdisciplinary Integration III

3(3-0-6)

Elective Courses 4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from General Education Courses

Manual (2002), Burapha University.

2. Area of Concentration Courses 113 credits**Basic Science and Mathematics****21 credits**

302111 Calculus I 3(3-0-6)

302112 Calculus II 3(3-0-6)

302216 Calculus of Several Variables

3(3-0-6)

303104 General Chemistry 3(3-0-6)

303105 General Chemistry Laboratory

1(0-3-0)

308101 Introductory Physics I 3(3-0-6)

308102 Introductory Physics II 3(3-0-6)

308103 Introductory Physics Laboratory I

1(0-3-6)

308204 Introductory Physics Laboratory II

1(0-3-6)

Basic Engineering**24 credits**

312204 Statistics for Engineering 3(3-0-6)

505101 Engineering Workshop Practice

2(1-5-0)

505202 Engineering Materials 3(3-0-6)

505243 Manufacturing Process I 3(3-0-6)

510101 Engineering Drawing 3(2-3-4)

515201 Fundamental of Electrical

Engineering I 3(3-0-6)

515202 Fundamental of Electrical

Engineering Laboratory I 1(0-3-0)

515211 Computer Programming for

Engineering 3(2-3-4)

520101 Statics 3(3-0-6)

Required Professional Courses		59 credits		505492 Industrial Engineering Project II	2(0-6-0)
510251	Mechanics of Materials	3(3-0-6)		Elective Professional Courses 9 credits	
510382	Introduction to Thermodynamics and Fluid Mechanics	3(3-0-6)		505431 Safety Engineering	3(3-0-6)
505404	Engineering Practical Training	1(0-3-0)		505432 Value Engineering	3(3-0-6)
505221	Engineering Management	3(3-0-6)		505433 Operations Research II	3(3-0-6)
505222	Engineering Statistics	3(3-0-6)		505434 Engineering Optimization	3(3-0-6)
505241	Production Drawing	2(1-3-2)		505435 Logistics	3(3-0-6)
505242	Advanced Engineering Materials	3(2-3-4)		505436 Engineering Experimental Design	3(3-0-6)
505303	Engineering Economy	3(3-0-6)		505437 Project Management	3(3-0-6)
505323	Industrial Work Study	3(3-0-6)		505451 Tool Engineering	3(3-0-6)
505324	Quality Control	3(3-0-6)		505452 Industrial Automation II	3(2-3-4)
505325	Production Planning and Control	3(3-0-6)		505453 Nondestructive Testing	3(2-3-4)
505326	Operations Research I	3(3-0-6)		505471 Industrial Environment Management	3(3-0-6)
505327	Industrial Plant Design	3(3-0-6)		505438 Selected Topics in Industrial Engineering	3(3-0-6)
505344	Manufacturing Process II	3(3-0-6)		505439 Quality Assurance	3(3-0-6)
505345	Production Workshop I	2(0-6-0)		3. Free Elective Courses 6 credits	
505346	Production Workshop II	2(0-6-0)		Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.	
505347	Industrial Automation I	3(2-3-4)			
505428	Ergonomics	3(3-0-6)			
505429	Industrial Cost Analysis and Budgeting	3(3-0-6)			
505448	Maintenance Engineering	3(3-0-6)			
505481	Industrial Engineering Seminar	1(0-2-1)			
505491	Industrial Engineering Project I	1(0-3-0)			

Bachelor of Engineering Program in Mechanical Engineering

Courses Structure

Students are required to take a minimum of 150 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Course	114 credits
- Basic Science	21 credits
- Basic Engineering	24 credits
- Required Professional Courses	60 credits
- Elective Professional Courses	9 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)

212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(3-0-6)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from General Education Courses Manual (2002), Burapha University.	
2. Area of Concentration Courses	144 credits
Basic Science	21 credits
302111 Calculus I	3(3-0-6)
302112 Calculus II	3(3-0-6)
302216 Calculus of Several Variables	3(3-0-6)

303104	General Chemistry	3(3-0-6)	510324	Heat Transfer	3(3-0-6)
303105	General Chemistry Laboratory		510331	Refrigeration	3(3-0-6)
		1(0-3-0)	510361	Machine Design	3(3-0-6)
308101	Introductory Physics I	3(3-0-6)	510362	Mechanics of Machinery	3(3-0-6)
308102	Introductory Physics II	3(3-0-6)	510363	Automatic Control	3(3-0-6)
308103	Introductory Physics Laboratory I		510364	Mechanical Vibration	3(3-0-6)
		1(0-3-6)	510371	Mechanical Engineering	
308204	Introductory Physics Laboratory II		Laboratory I		1(0-3-0)
		1(0-3-6)	510405	Mechanical Engineering	
	Basic Engineering	24 credits	Practical Training		1(0-6-0)
505202	Engineering Materials	3(3-0-6)	510432	Air Conditioning	3(3-0-6)
510101	Engineering Drawing	3(2-3-4)	510442	Power Plant Engineering	3(3-0-6)
510202	Dynamics	3(3-0-6)	510472	Mechanical Engineering	
510221	Fluid Mechanics	3(3-0-6)	Laboratory II		1(0-3-0)
510222	Thermodynamics	3(3-0-6)	510498	Mechanical Engineering	
510251	Mechanics of Materials	3(3-0-6)	Project I		3(0-9-0)
515211	Computer Programming for		510499	Mechanical Engineering	
	Engineering	3(2-3-4)	Project II		3(0-9-0)
520101	Statics	3(3-0-6)	515201	Fundamental of Electrical	
	Required Professional Courses		Engineering I		3(3-0-6)
		60 credits	515202	Fundamental of Electrical	
302281	Ordinary Differential Equations		Engineering Laboratory I		1(0-3-0)
		3(3-0-6)	515203	Fundamental of Electrical	
312204	Statistics for Engineering	3(3-0-6)	Engineering II		3(3-0-6)
505101	Engineering Workshop Practice		515204	Fundamental of Electrical	
		2(1-5-0)	Engineering Laboratory II		1(0-3-0)
			Elective Professional Course 9 credits		
505303	Engineering Economy	3(3-0-6)	505221	Engineering Management	3(3-0-6)
510203	Mechanical Drawing	2(1-2-3)	510341	Internal Combustion Engines	
510304	Numerical Methods	3(3-0-6)			3(3-0-6)
510323	Advanced Thermodynamics	3(3-0-6)	510433	Design of Thermal Systems	3(3-0-6)

510434	Design of Building Piping System	3(3-0-6)
510435	Design of Industrial Piping System	3(3-0-6)
510443	Automotive Engineering	3(3-0-6)
510444	Combustion	3(3-0-6)
510445	Gas Turbines	3(3-0-6)
510452	Advanced Mechanics of Materials	3(3-0-6)
510465	Computer-Aided Design and Computer-Aided Manufacturing	3(3-0-6)
510466	Industrial Robot	3(3-0-6)
510467	Finite Element Method	3(3-0-6)
510473	Fluid Machinery	3(3-0-6)
510474	Fluid Power Systems	3(3-0-6)

510491	Plant Engineering Applications	3(2-3-4)
510492	Seminar and Case Study	3(2-3-4)
510493	Special Study in Mechanical Engineering	3(3-0-6)
510494	Analysis of Mechanical Engineering Problem	3(2-3-4)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from subjects provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.





Faculty of Fine and Applied Arts



Faculty of Fine and Applied Arts

Background

The Faculty of Fine and Applied Arts aims to produce graduates who are well equipped in the areas of creative thinking and academic excellence and also able to keep themselves abreast of social and technological advancement. The students of the faculty are usually trained to value and appreciate our national arts and culture with a sense of ethics and social awareness.

Departments

The Faculty of Fine and Applied Arts is composed of 5 departments. They are:

1. Department of Ceramics
2. Department of Painting
3. Department of Music
4. Department of Graphic Arts
5. Department of Visual Communication Arts

Degrees Offered

The Faculty of Fine and Applied Arts offers a four year program comprising 5 majors: Painting, Ceramics, Graphic Arts, Visual Communication Arts, and Music.

Bachelor of Fine and Applied Arts

Program in Ceramics

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Area of Concentration Courses

	99 credits
- Core Courses	9 credits
- Professional Courses	17 credits
- Major Courses	73 credits

3. Free Elective Courses

1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)

Professional English	6 credits	Professional Courses	17 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)	606111 Drawing I	2(1-3-2)
212202 English for Humanities and Social Sciences II	3(2-2-5)	606112 Drawing II	2(1-3-2)
Thai Group	2 credits	606113 Art Composition	3(1-4-4)
208101 Thai Language Skills	2(2-0-4)	606121 History of Eastern Arts	2(2-0-4)
Information Technology Group	3 credits	606122 History of Western Arts	2(2-0-4)
310101 Computer and the Internet	3(2-2-5)	606214 Research of Thai Arts	2(1-3-2)
Interdisciplinary Integration Group	9 credits	606323 Art Criticism	2(2-0-4)
999101 Interdisciplinary Integration I	3(3-0-6)	616212 Introduction to Photography	2(1-3-2)
999102 Interdisciplinary Integration II	3(3-0-6)	Major Courses	57 credits
999103 Interdisciplinary Integration III	3(3-0-6)	616111 Mechanical Drawing for Design	2(1-3-2)
Elective Courses	4 credits	616214 Principle of Design	2(1-3-2)
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from General Education Courses Manual (2002), Burapha University.		616215 Creative Thinking	2(1-3-2)
2. Area of Concentration Courses	99 credits	616216 Computer for Design	2(1-3-2)
Core Courses	9 credits	616217 Packaging Design	2(1-3-2)
601101 Aesthetics	3(3-0-6)	616221 Evolution of Design	2(2-0-4)
601102 Survey of Thai Arts	3(3-0-6)	616241 Introduction to Business and Marketing for Design	2(2-0-4)
601203 Technology and Creative Arts	3(3-0-6)	616322 Research of Design	2(2-0-4)
		616471 Exhibition Design and Display Design	2(2-0-4)
		617231 Hand Forming	2(1-3-2)
		617241 Introduction to Ceramics	3(2-2-5)
		617242 Kiln and Firing	2(2-0-4)
		617352 Wheel Throwing	2(1-3-2)
		617353 Mold Making and Slip Casting I	3(1-4-4)
		617354 Ceramic Glazes I	3(2-2-5)
		617355 Design for Ceramics Arts	3(1-4-4)

617356	Clay and Clay Bodies	3(1-4-4)
617357	Design for Industrial Ceramics	3(1-4-4)
617362	Mold Making and Slip Casting II	3(1-4-4)
617363	Ceramic Glazes II	3(2-2-5)
617373	History of Ceramics	2(2-0-4)
617374	Geology for Ceramics	2(2-0-4)
617375	Technology for Ceramics	2(2-0-4)
617459	Jigger and Jolly	2(1-3-2)
617465	Ceramic Decorating Techniques	3(1-4-4)
617476	Ceramic Management	2(2-0-4)
617481	Individual Study	4(2-4-6)
617482	Art Thesis	8(2-12-10)
3.	Free Elective Courses	6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad or select from the following list.

615401	Folk Art	2(2-0-4)
615411	Plant for Decoration	2(1-2-3)
615412	Garden Design	2(1-3-2)
615413	Furniture Design	2(1-3-2)
615414	Fashion Design	2(1-2-3)
615415	Jewelry Design	2(1-2-3)
615416	Silk Screen	2(1-2-3)
615418	Art of Caricature	2(1-2-3)
615419	Production Design	2(1-2-3)
615420	Souvenir Product Design	2(1-2-3)

Bachelor of Fine and Applied Arts

Program in Graphic Arts

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1.	General Education Courses	30 credits
	Required Courses	26 credits
	- English Group	12 credits
	- Thai Group	2 credits
	- Information Technology Group	3 credits
	- Interdisciplinary Integration Group	9 credits
	Elective Courses	4 credits
2.	Area of Concentration Courses	99 credits
	- Core Courses	9 credits
	- Professional Courses	17 credits
	- Major Courses	73 credits
3.	Free Elective Courses	6 credits
1.	General Education Courses	30 credits
	Required Courses	26 credits
	English Group	12 credits
	Basic English	6 credits
	212101 English I	3(3-0-6)
	212102 English II	3(3-0-6)
	Professional English	6 credits
	212201 English for Humanities and Social Sciences I	3(2-2-5)

212202	English for Humanities and Social Sciences II	3(2-2-5)	606122	History of Western Arts	2(2-0-4)
	Thai Group	2 credits	606214	Research of Thai Arts	2(1-3-2)
208101	Thai Language Skills	2(2-0-4)	606323	Art Criticism	2(2-0-4)
	Information Technology Group	3 credits	616212	Introduction to Photography	2(1-3-2)
310101	Computer and the Internet	3(2-2-5)		Professional Courses on Visual Art	16 credits
	Interdisciplinary Integration Group	9 credits	608231	Sculpture	2(1-3-2)
999101	Interdisciplinary Integration I	3(3-0-6)	608232	Thai Art I	2(1-3-2)
999102	Interdisciplinary Integration II	3(3-0-6)	608233	Drawing III	2(1-3-2)
999103	Interdisciplinary Integration III	3(3-0-6)	608251	Computer for Visual Art	2(1-3-2)
	Elective Courses	4 credits	608341	Visual Arts Research	2(2-0-4)
	A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from General Education Courses Manual (2002), Burapha University.		608342	Modern Art	2(2-0-4)
	2. Area of Concentration Courses	99 credits	608343	Contemporary Art	2(2-0-4)
	Core Courses	9 credits	608344	Visual Arts of Administration	2(2-0-4)
601101	Aesthetics	3(3-0-6)		Major Courses	57 credits
601102	Survey of Thai Arts	3(3-0-6)	609151	Printmaking I	3(1-4-4)
601203	Technology and Creative Arts	3(3-0-6)	609252	Creative Drawing	2(1-3-2)
	Professional Courses	17 credits	609253	Administration and Management in Graphic Arts	2(1-3-2)
606111	Drawing I	2(1-3-2)	609254	Printmaking II	4(2-6-4)
606112	Drawing II	2(1-3-2)	609255	Printmaking III	4(2-6-4)
606113	Art Composition	3(1-4-4)	609356	Printmaking IV	4(2-6-4)
606121	History of Eastern Arts	2(2-0-4)	609357	Printmaking V	4(2-6-4)
			609358	Computer Art	3(1-4-4)
			609359	Practice in Expression of Emotion	3(1-4-4)
			609461	Individual Study	4(2-6-4)
			609462	Three Dimension Printmaking	3(1-4-4)
			609463	Paper Works	4(2-6-4)

609464	Printmaking and Medias	4(2-6-4)	- Core Courses	9 credits
609465	Art Thesis	8(2-12-10)	- Major Required Courses	
609471	Seminar in Contemporary			17 credits
	Printmaking	3(3-0-6)	- Major Elective Courses	73 credits
609472	Seminar	2(2-0-4)	3. Free Elective Courses	6 credits
3. Free Elective Courses		6 credits		

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad or select from the following list.

620311	Applied Printmaking	2(1-3-2)		
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Bachelor of Fine and Applied Arts

Program in Music

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses	99 credits

1. General Education Courses 30 credits

Required Courses 26 credits

English Group 12 credits

Basic English 6 credits

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

Professional English 6 credits

212201 English for Humanities and Social Sciences I 3(2-2-5)

212202 English for Humanities and Social Sciences II 3(2-2-5)

Thai Group 2 credits

208101 Thai Language Skills 2(2-0-4)

Information Technology Group 3 credits

310101 Computer and the Internet 3(2-2-5)

Interdisciplinary Integration Group 9 credits

999101 Interdisciplinary Integration I 3(3-0-6)

999102 Interdisciplinary Integration II 3(3-0-6)

999103 Interdisciplinary Integration III 3(3-0-6)

Elective Courses 4 credits

216101 Speech for Effective Communication 2(2-0-4)

433101	Developing Thinking Skills	2(2-0-4)	627217	Pi-Pat Mon I	2(1-3-2)
2. Area of Concentration Courses 99 credits			627221	Thai Music Composition	2(2-0-4)
	Core Courses	9 credits	627285	Thai Music Notation	2(1-3-2)
601101	Aesthetics	3(3-0-6)	627304	Thai Music IV	3(1-4-4)
601102	Survey of Thai Arts	3(3-0-6)	627305	Thai Music V	3(1-4-4)
601203	Technology and Creative Arts		627307	Kreung Say Pijava	2(1-3-2)
		3(3-0-6)	627311	Phleng Na-Pat	2(1-3-2)
	Major Required Courses	27 credits	627312	Phleng Tayoy	2(1-3-2)
626151	History of Western Music I	2(2-0-4)	627315	Pi-Pat Mon II	2(1-3-2)
626171	Theory of Music I	2(2-0-4)	627316	Pi-Pat Nanghong	2(1-3-2)
626172	Theory of Western Music I	2(2-0-4)	627318	Pi-Pat Dueg Dum-Bun	2(1-3-2)
626182	Fundamental of Theatre	2(2-0-4)	627323	Form and Analysis of	
626252	History of Eastern Music	2(2-0-4)		Thai Music	2(2-0-4)
626253	History of Thai Music	2(2-0-4)	627341	Creative Music	2(1-3-2)
626262	Choral Class	2(2-0-4)	627364	Sepa	2(1-3-2)
626271	Theory of Harmony I	2(2-0-4)	627375	Thai Folk Music	3(1-3-2)
626283	Music Audio Visual	2(2-0-4)	627384	Kreungnang	2(1-3-2)
626331	The Management of Music		627406	Thai Music VI	3(1-4-4)
	and Theatre	2(2-0-4)	627413	Phleng Deaw	2(1-3-2)
626332	Introduction to Music Business		627422	Thai Counterpoints	2(2-0-4)
		2(2-0-4)	627433	Thai Music Review	2(2-0-4)
626374	Music Computer	3(3-0-6)	627477	Introduction to Ethnomusicology	
626491	Seminar and Research				2(2-0-4)
	in Music	2(2-0-4)	627492	Music Thesis	6(2-8-8)
	Major Elective Courses	63 credits	Western Music Group		
Thai Music Group			628101	Western Music I	3(1-4-4)
627101	Thai Music I	3(1-4-4)	628162	Ear Training I	2(1-3-2)
627161	Thai Classical Singing	2(1-3-2)	628202	Western Music II	3(1-4-4)
627181	Fundamental of Thai Music	2(1-3-2)	628203	Western Music III	3(1-4-4)
627202	Thai Music II	3(1-4-4)	628241	Military Band I	2(2-0-4)
627203	Thai Music III	3(1-4-4)	628108	Keyboard	2(1-3-2)
627214	Phleng Mahori	2(1-3-2)			

628252	History of Western Music II	2(2-0-4)	629334	Survey of Thai Music	2(2-0-4)
628263	Ear Training II	2(1-3-2)	629335	Thai Instrument Maintenance	3(3-0-6)
626272	Theory of Harmony II	2(2-0-4)	629336	Music Ensemble	3(1-4-4)
628274	Musical Acoustics	2(2-0-4)	629342	Acting I	2(1-3-2)
628304	Western Music IV	3(1-4-4)	629343	Acting II	2(1-3-2)
628305	Western Music V	3(1-4-4)	629344	Jazz Dance	2(1-1-4)
628321	Forms and Analysis of Western Music I	2(2-0-4)	629345	Stag Make-up	2(1-1-4)
628322	Forms and Analysis of Western Music II	2(2-0-4)	629346	Stage Movement	2(1-1-4)
628323	Band Arranging	2(2-0-4)	629347	Play Writing	2(2-0-4)
628342	Recording I	2(2-0-4)	629348	Directing	2(2-0-4)
628343	Recording II	2(2-0-4)	629349	Music Therapy	2(2-0-4)
628344	Military Band II	2(2-0-4)	629364	Western Music Singing	2(1-1-4)
628376	Western Counterpoint I	2(2-0-4)	629365	Thai Country Singing	2(1-1-4)
628377	Western Music Conducting	2(1-3-2)	629386	Khon	2(1-1-4)
628378	Western Counterpoint II	2(2-0-4)	629437	Music Appreciation	2(2-0-4)
628384	Western Music Instrument Maintenance	2(1-3-2)	629438	Thai Dramatic	2(1-3-2)
628406	Western Music VI	3(1-4-4)			
628407	Western Music VII	3(1-4-4)			
628322	Western Music Composition I	2(2-0-4)			
628491	Music Thesis	6(2-8-8)			

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad or select from the following list.

629306	Recorder	2(1-3-2)
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Bachelor of Fine and Applied Arts

Program in Painting

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits

- Interdisciplinary Integration		
Group	9 credits	
Elective Courses	4 credits	
2. Area of Concentration Courses		99 credits
- Core Courses	9 credits	
- Professional Courses	17 credits	
- Major Courses	73 credits	
3. Free Elective Courses	6 credits	
1. General Education Courses		30 credits
Required Courses		26 credits
English Group		12 credits
Basic English		6 credits
212101 English I	3(3-0-6)	
212102 English II	3(3-0-6)	
Professional English		6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)	
212202 English for Humanities and Social Sciences II	3(2-2-5)	
Thai Group		2 credits
208101 Thai Language Skills	2(2-0-4)	
Information Technology		
Group		3 credits
310101 Computer and the Internet	3(2-2-5)	
Interdisciplinary Integration		
Group		9 credits
999101 Interdisciplinary Integration I	3(3-0-6)	
999102 Interdisciplinary Integration II	3(3-0-6)	

999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses		99 credits
Core Courses		9 credits
601101 Aesthetics	3(3-0-6)	
601102 Survey of Thai Arts	3(3-0-6)	
601203 Technology and Creative Arts	3(3-0-6)	
Professional Courses		17 credits
606111 Drawing I	2(1-3-2)	
606112 Drawing II	2(1-3-2)	
606113 Art Composition	3(1-4-4)	
606121 History of Eastern Arts	2(2-0-4)	
606122 History of Western Arts	2(2-0-4)	
606214 Research of Thai Arts	2(1-3-2)	
606323 Art Criticism	2(2-0-4)	
616212 Introduction to Photography	2(1-3-2)	
Professional Courses on Visual Art		16 credits
608231 Sculpture	2(1-3-2)	
608232 Thai Art I	2(1-3-2)	
608233 Drawing III	2(1-3-2)	
608251 Computer for Visual Art	2(1-3-2)	
608341 Visual Arts Research	2(2-0-4)	
608342 Modern Art	2(2-0-4)	

608343	Contemporary Art	2(2-0-4)
608344	Visual Arts of Administration	2(2-0-4)
	Major Courses	57 credits
607131	Painting I	2(1-3-2)
616132	Introduction to Mechanical Drawing	2(1-3-2)
607233	Analysis Composition	2(1-3-2)
607234	Creative Drawing	2(1-3-2)
607251	Painting II	4(2-6-4)
607252	Painting III	4(2-6-4)
607353	Painting IV	4(2-6-4)
607354	Portrait Painting	2(1-3-2)
607355	Creative Painting I	4(2-6-4)
607356	- Thai Traditional Painting	2(1-3-2)
607357	Painting and Media	3(1-4-4)
607361	Creative Painting II	4(2-6-4)
607462	Thai Creative Painting	2(1-3-2)
607463	Mixed Media	4(2-6-4)
607464	Individual Study	4(2-6-4)
607466	Art Thesis	8(2-12-10)
607471	Seminar in Contemporary Painting	2(2-0-4)
607472	Seminar	2(2-0-4)

3. Free Elective Courses **6 credits**

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad or select from the following list.

620301	Thai Decorative Arts	2(2-0-4)
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620302	Conservation of Thai Traditional Art	2(2-0-4)
620303	Psychology of Art	2(2-0-4)
620304	Theory of Creativity	2(2-0-4)
620305	Contemporary Art in Thailand	2(2-0-4)
620306	Evolution of Sculpture	2(2-0-4)
620307	Comparative Arts	2(2-0-4)
620308	Philosophy of Criticism	2(2-0-4)
620309	Creative Writing	2(2-0-4)
620321	Evolution of Painting	2(2-0-4)
620322	Evolution of Drawing	2(2-0-4)
620323	Aesthetics I	2(2-0-4)
620331	Basics of Drawing	2(1-3-2)

Bachelor of Fine and Applied Arts

Program in Visual Communication Arts

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Area of Concentration Courses	99 credits
- Core Courses	9 credits
- Professional Courses	17 credits
- Major Courses	73 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)

Elective Courses **4 credits**

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses	99 credits
Core Courses	9 credits
601101 Aesthetics	3(3-0-6)
601102 Survey of Thai Arts	3(3-0-6)
601203 Technology and Creative Arts	3(3-0-6)
Professional Courses	17 credits
606111 Drawing I	2(1-3-2)
606112 Drawing II	2(1-3-2)
606113 Art Composition	3(1-4-4)
606121 History of Eastern Arts	2(2-0-4)
606122 History of Western Arts	2(2-0-4)
606214 Research of Thai Arts	2(1-3-2)
605323 Art Criticism	2(2-0-4)
616212 Introduction to Photography	2(1-3-2)
Major Courses	57 credits
616111 Mechanical Drawing	2(1-3-2)
616214 Principle of Design	2(1-3-2)
616215 Creative Thinking	2(1-3-2)
616216 Computer for Design	2(1-3-2)
616217 Packaging Design	2(1-3-2)
616221 Evolution of Design	2(2-0-4)
616241 Introduction to Business and Marketing of Design	2(2-0-4)
616251 Photography I	2(1-3-2)

616253	Visual Communication I	2(1-3-2)	616481	Individual Study	4(2-4-6)
616254	Visual Communication II	3(1-4-4)	616482	Art Thesis	8(2-12-10)
616352	Research of Design	2(2-0-4)	3. Free Elective Courses		6 credits
616352	Photography II	2(1-3-2)	Students may take at least 6 credits as		
616355	Advertising I	2(1-3-2)	free elective credits to complete the graduation		
616356	Television	3(2-4-3)	requirement from courses provided at Burapha		
616357	Video and Motion Picture	3(2-4-3)	University or other universities both in Thailand		
616358	Illustration	2(1-3-2)	and abroad or select from the following list.		
626361	Visual Communication III	3(1-4-4)	615401	Folk Art	2(2-0-4)
616363	Advertising II	2(1-3-2)	615411	Plant for Decoration	2(1-3-2)
616366	Photography III	3(2-4-3)	615412	Garden Design	2(1-3-2)
616367	Computer I	2(1-3-2)	615413	Furniture Design	2(1-3-2)
616368	Computer II	3(1-4-4)	615414	Fashion Design	2(1-2-3)
616469	Computer for Editing	3(1-4-4)	615415	Jewelry Design	2(1-2-3)
616372	Printing Technology	3(1-4-4)	615416	Silk Screen	2(1-2-3)
616464	Advertising III	3(1-4-4)	615417	Toy Design	2(1-2-3)
616471	Exhibition Design and Display		615418	Art of Caricature	2(1-2-3)
	Design	2(2-0-4)	615419	Production Design	2(1-2-3)
616473	Criticism and Presentation	2(2-0-4)	615420	Souvenir Product Design	2(1-2-3)





คณะมนุษยศาสตร์และสังคมศาสตร์

Faculty of Humanities and Social Sciences

Faculty of Humanities and Social Sciences

Background

The Faculty of Humanities and Social Sciences was first established in 1955 as the Faculty of Humanistic Studies and Social Sciences of the College of Education, Bangsaen, the first institution of higher education to be established outside Bangkok.

In 1974, when the college of Education was upgraded to university status as part of Srinakharinwirot University, the disciplines of Humanistic Studies and Social Sciences were segregated into two separate faculties: The Faculty of Humanities, and the Faculty of Social Sciences.

These two faculties, in 1991, merged again and became the Faculty of Humanities and Social Sciences when the Bangsaen Campus of Srinakharinwirot was upgraded to be an independent regional university under the name of Burapha University.

Departments

At present, the Faculty has teaching staff of approximately 100 with student enrollment of 2000 (in both four-year and two-year continuing programs) in its 12 departments. They are:

1. Department of Business Administration
2. Department of Eastern Languages
3. Department of Economics
4. Department of Geography
5. Department of History
6. Department of Library Science
7. Department of Political Science
8. Department of Psychology
9. Department of Sociology
10. Department of the Thai Language
11. Department of Western Languages
12. Department of Laws

Degrees Offered

The Faculty of Humanities and Social Sciences offers three types of study programs at the undergraduate level.

1. **Four-year Regular Program** : for those with a high school diploma or the equivalent who pass the entrance examination to become first year students, on the condition that 60 percent of the number of first year students is reserved for students from the eastern region, and the remainder is for general applicants from all over the country.

The degrees offered in this type of study program are :

- B.A. (Thai)
- B.A. (Chinese)
- B.A. (English)
- B.A. (Japanese)
- B.A. (Korean)
- B.A. (History)
- B.A. (Community Development)
- B.Sc. (Geo-Informatic Technology)
- B.Sc. (Psychology)
- B.Acc. (Accounting)
- B.B.A. (Marketing)
- B.B.A. (Human Resource Management)
- B.C.A. (Communication Arts)
- B.Econ. (Bachelor of Economics)
- B.A. (Religions and Philosophy)

2. Four-year Continuing Program :

for those with a diploma from high school, vocational school, or the equivalent, who pass the university examination.

The degree offered in this type of study program is :

- B.C.A. (Bachelor of Communication Arts)

3. Two-Year Continuing Program :

for those with a diploma from vocational schools who pass the screening examination to study at the University on weekends.

The degrees offered under this type of study program are :

- B.B.A. (Accounting)
- B.B.A. (Marketing)
- B.B.A. (Personnel Management)

Bachelor of Accountancy Program in

Accounting

Courses Structure

Students are required to take a minimum of 140 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Area of Concentration Courses

	104 credits
- Basic Professional Courses	56 credits
- Major Required Courses	39 credits
- Major Elective Courses	9 credits

3. Free Elective Courses 6 credits

1. General Education Courses 30 credits**Required Courses 26 credits****English Group 12 credits****Basic English 6 credits**

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits

212201 English for Humanities and

Social Sciences I 3(2-2-5)

212202 English for Humanities and

Social Sciences II 3(2-2-5)

212207 English Communicative Speaking

3(2-2-5)

212208 English Writing Skills 3(3-0-6)

Thai Group 2 credits

208101 Thai Language Skills 2(2-0-4)

Information Technology**Group 3 credits**

310101 Computer and the Internet 3(2-2-5)

Interdisciplinary Integration**Group 9 credits**

999101 Interdisciplinary Integration I

3(3-0-6)

999102 Interdisciplinary Integration II

3(3-0-6)

999103 Interdisciplinary Integration III

3(3-0-6)

Elective Courses 4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 102 credits**Basic Professional Courses 56 credits**

212371 Business English 2(2-0-4)

226211 Microeconomics I 3(3-0-6)

226212 Macroeconomics I 3(3-0-6)

227211 Business Finance 3(3-0-6)

228211 Principles of Marketing 3(3-0-6)

229111 Principles of Accounting I 3(3-0-6)

229211 Principles of Accounting II 3(3-0-6)

230211 Business Law 3(3-0-6)

230221 Principles of Management 3(3-0-6)

230231 Taxation 3(3-0-6)

230321 Quantitative Analysis in
Management 3(3-0-6)230322 Production and Operations
Management 3(3-0-6)230323 Management Information
System 3(3-0-6)230411 Business Research Methodology
3(3-0-6)

230421 Strategic Management 3(3-0-6)

244211 Human Resource Management
3(3-0-6)

302117 Calculus for Business 3(3-0-6)

310381 Computer in Business 3(3-0-6)

312201	Elementary Statistics	3(3-0-6)
	Major Required Courses	39 credits
229221	Intermediate Accounting I	3(3-0-6)
229321	Intermediate Accounting II	3(3-0-6)
229322	Advanced Accounting	3(3-0-6)
229331	Cost Accounting	3(3-0-6)
229332	Managerial Accounting	3(3-0-6)
229341	Tax Accounting	3(3-0-6)
229351	Auditing	3(3-0-6)
229361	Software Packages for Accounting	3(3-0-6)
229421	Accounting Theory	3(3-0-6)
229422	Corporate Financial Reporting and Analysis	3(3-0-6)
229423	Accounting Policy	3(3-0-6)
229451	Internal Auditing and Control	3(3-0-6)
229461	Accounting Information System	3(3-0-6)
	Major Elective Courses	9 credits
227421	Principles of Investment	3(3-0-6)
229222	Governmental Accounting	3(3-0-6)
229271	Accounting for Financial Institution	3(3-0-6)
229362	Accounting System Design	3(3-0-6)
229424	Seminar in Financial Accounting	3(3-0-6)
229431	Profit Planning and Control	3(3-0-6)
229432	Seminar in Managerial Accounting	3(3-0-6)

229452	Information System Control and Audit	3(3-0-6)
229453	Seminar in Auditing	3(3-0-6)
229462	Seminar in Accounting Information System	3(3-0-6)
229471	Institutional Accounting	3(3-0-6)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Bachelor of Arts Program in Chinese Language

Courses Structure

Students are required to take a minimum of 132 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses	96 credits

- Major Courses	78 credits
- Minor Courses	18 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212207 English Communicative Speaking	3(3-0-6)
	3(2-2-5)
212208 English Writing Skills	3(3-3-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)

Elective Courses 4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 96 credits

Major Courses	78 credits
Major Required Courses	51 credits
206111 Chinese I	3(2-3-4)
206112 Chinese II	3(2-3-4)
206213 Chinese III	3(2-3-4)
206214 Chinese IV	3(2-3-4)
206221 Chinese Listening-Speaking I	3(3-0-6)
206222 Chinese Listening-Speaking II	3(3-0-6)
206231 Chinese Reading I	3(3-0-6)
206232 Chinese Reading II	3(3-0-6)
206241 Chinese Writing I	3(3-0-6)
206315 Chinese V	3(2-3-4)
206316 Chinese VI	3(2-3-4)
206323 Chinese Listening-Speaking III	3(3-0-6)
206324 Chinese Listening-Speaking IV	3(3-0-6)
206333 Chinese Reading III	3(3-0-6)
206342 Chinese Writing II	3(3-0-6)
206425 Chinese Business Conversation I	3(3-0-6)
206451 Chinese Translation I	3(3-0-6)

Major Elective Courses	27 credits
206261 Chinese Linguistics	3(3-0-6)
206281 Evolution of the Chinese Characters	3(3-0-6)
206334 Chinese Newspaper Reading	3(3-0-6)
206362 Chinese Structure	3(3-0-6)
206371 Chinese Folklore	3(3-0-6)
206372 Contemporary Chinese Literature	3(3-0-6)
206382 Chinese Culture	3(3-0-6)
206383 Chinese Today	3(3-0-6)
206426 Chinese Business Conversation II	3(3-0-6)
206443 Chinese Business Writing	3(3-0-6)
206452 Chinese Translation II	3(3-0-6)
206453 Chinese for Hotel Business	3(3-0-6)
206454 Chinese for Tour Guides I	3(3-0-6)
206455 Chinese for Tour Guides II	3(3-0-6)
206456 Chinese for Industry	3(3-0-6)
206457 Chinese for Mass Communication	3(3-0-6)
206463 Teaching Chinese as a Foreign Language	3(3-0-6)
206473 Classical Chinese Literature	3(3-0-6)
206484 Chinese Seminar	3(3-0-6)

Minor Courses 18 credits

Students can select other minor courses from other faculties in Burapha University on approval from the Head of Department.

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

**Bachelor of Arts Program in
Community Development**

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses

	99 credits
- Major Courses	81 credits
- Minor Courses	18 credits

3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in

other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses	99 credits
Major Courses	81 credits
Basic Professional Courses	24 credits
221252 Human Relations in Community	3(3-0-6)
221256 Psychology and Community	3(3-0-6)
221257 Community Information System	3(3-0-6)
221356 Local Administration	3(3-0-6)
225221 Cultural Anthropology	3(3-0-6)
225311 Rural Sociology	3(3-0-6)
225313 Industrial Sociology	3(3-0-6)
225342 Research Methods in Social Sciences	3(3-0-6)
Major Required Courses	39 credits
221251 Community Study	3(3-0-6)
221351 Principles of Community Development I	3(3-0-6)
221352 Principles of Community Development II	3(3-0-6)
221353 Principles of Practice of Planning	3(3-0-6)
221451 Leadership in Community Development	3(3-0-6)
221452 Community Development Administration	3(3-0-6)
221453 Folk Business and Community Development	3(3-0-6)
221454 Appropriate Technology for Community Development	3(3-0-6)

221455	Land Reform and Community Development	3(3-0-6)
221456	Problems of Community Development	3(3-0-6)
221461	Professional Internship in Community Development	3(0-9-6)
221462	Sessional Paper	6(3-9-6)
Major Elective Courses		18 credits
221253	Sociology Theories for Community Development	3(3-0-6)
221254	Anthropology Theories for Community Development	3(3-0-6)
221255	Computer Application in Community Development	3(2-2-5)
221354	Social Psychology Theories for Community Development	3(3-0-6)
221355	World Community Today	3(3-0-6)
221457	Comparative Community Development	3(2-2-5)
221458	Recreation and Community Development	3(2-2-5)
225223	Religions and Thai Traditions	3(3-0-6)
225312	Urban Sociology	3(3-0-6)
225316	Mass Communication and Public Opinion	3(3-0-6)
225317	Sociology of Women	3(3-0-6)
225341	Introductory Statistics for the Social Sciences	3(3-0-6)
225343	The Application of Statistical Package in Social Sciences	3(2-2-5)

225411	Social Organization	3(3-0-6)
225412	Political Sociology	3(3-0-6)
225416	Criminology and Penology	3(3-0-6)
225423	Thai Society and Culture	3(3-0-6)
225431	Population and Development	3(3-0-6)
225441	Social Impact Assessment	3(3-0-6)

Minor Courses 18 credits

Students can select other minor from other faculties in Burapha University on approval from the Head of Department.

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Bachelor of Arts Program in

English Language

Courses Structure

Students are required to take a minimum of 128 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits

- Interdisciplinary Integration	
Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses	
	92 credits
- Major Courses	74 credits
- Minor Courses	18 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-0-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology	
Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration	
Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)

999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.	
2. Area of Concentration Courses	92 credits
Major Courses	74 credits
Major Required Courses	42 credits
212211 Reading Techniques	3(3-0-6)
212212 Analytical Reading	2(2-0-4)
212221 Writing I	2(2-0-4)
212222 Writing II	2(2-0-4)
212231 Oral English I	2(1-2-3)
212232 Oral English II	2(1-2-3)
212241 Background to English	
Language and Culture	2(2-0-4)
212242 The Novel and the Short Story	2(2-0-4)
212281 English Phonology	2(1-2-3)
212313 Critical Reading	2(2-0-4)
212323 Essay Writing	2(2-0-4)
212324 Summary Writing	2(2-0-4)
212333 oral Writing III	2(1-2-3)
212334 Oral Presentation	2(1-2-3)
212351 Introduction to Poetry	2(2-0-4)
212352 Drama	3(3-0-6)
212361 Basic Translation	2(2-0-4)
212362 Translation I	2(2-0-4)

212382	English Syntax	2(2-0-4)	212466	Spontaneous Translation I	2(1-2-3)
212425	Research Paper	2(2-0-4)	212467	Spontaneous Translation II	2(1-2-3)
Major Elective Courses		32 credits	212477	English for Printed Media	2(2-0-4)
212343	The English and American Novel		212478	English for Broadcasting Media	
		2(2-0-4)			2(1-2-3)
212344	Contemporary Literature	2(2-0-4)	212479	English for Advertising and	
212353	Poetry	2(2-0-4)		Public Relation	2(1-2-3)
212354	Modern Drama	2(2-0-4)	212483	Contrastive Analysis of	
212371	Business English	2(2-0-4)		English and Thai	2(2-0-4)
212372	Business for Workplace	2(1-2-3)	212484	Applied Linguistics	2(1-2-3)
212373	English for Hotel	2(1-2-3)	212493	Independent Study in	
212374	English for Tourism Industry			English Language	2(0-4-2)
		2(1-2-3)	212494	Project in English for Tourism	
212375	English for Domestic Tourism				2(0-4-2)
		2(1-2-3)	212495	Project in Translation	2(0-4-2)
212376	English for Information		212496	Project in Printed Media	2(0-4-2)
	Technology Communication	2(1-2-3)	212497	Seminar on Selected Topic	2(0-4-2)
212391	Practicum	2(0-10-0)	212498	Advanced Language Skills for	
212392	Cross Cultural Experience	3(3-0-6)		Graduate Studies	2(1-2-3)
212426	Advanced Essay Writing	2(2-0-4)	Minor Courses 18 credits		
212427	Creative Writing	2(2-0-4)	Students can select other minor from		
212435	Oral Discussion and Debate	2(1-2-3)	other faculties in Burapha University on		
212445	Literary Criticism	2(2-0-4)	approval from the Head of Department.		
212455	English and American Drama		3. Free Elective Courses 6 credits		
		2(2-0-4)	Students may take at least 6 credits as		
212456	Modern British and		free elective credits to complete the graduation		
	American poetry	2(2-0-4)	requirement from courses provided at Burapha		
212457	Shakespearean Drama	2(2-0-4)	University or other universities both in Thailand		
212463	Translation of Non-fiction	2(2-0-4)	and abroad.		
212464	Translation of Fiction	2(2-0-4)			
212465	Translation of Literature	2(2-0-4)			

Bachelor Arts Program in History

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses

30 credits

Required Courses 26 credits

- English Group 12 credits

- Thai Group 2 credits

- Information Technology

Group 3 credits

- Interdisciplinary Integration

Group 9 credits

Elective Courses 4 credits

2. Area of Concentration 99 credits

- Core Courses 24 credits

- Major Courses 57 credits

- Minor Courses 18 credits

3. Free Elective Courses 6 credits

1. General Education Courses 30 credits

Required Courses 26 credits

English Group 12 credits

Basic English 6 credits

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits

212201 English for Humanities and

Social Sciences I 3(2-2-5)

212202 English for Humanities and
Social Sciences II 3(2-2-5)

212207 English Communicative Speaking
3(2-2-5)

Thai Group 2 credits

208101 Thai Language Skills 2(2-0-4)

Information Technology

Group 3 credits

310101 Computer and the Internet 3(2-2-5)

Interdisciplinary Integration

Group 9 credits

999101 Interdisciplinary Integration I
3(3-0-6)

999102 Interdisciplinary Integration II
3(3-0-6)

999103 Interdisciplinary Integration III
3(3-0-6)

Elective Courses 4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 99 credits

Core Courses 24 credits

English Group 6 credits

212208 English Writing Skills 3(3-0-6)

212211 Reading Techniques 3(3-0-6)

212212 Analytical Reading 2(2-0-4)

212221 Writing I 2(2-0-4)

212222 Writing II 2(2-0-4)

212231 Oral English I 2(1-2-3)

212232	Oral English II	2(1-2-3)	280322	Language and Culture	2(2-0-4)
212261	Basic Translation	2(2-0-4)	208362	Historical Literature	2(2-0-4)
	Thai Group	6 credits	208472	Political Literature	2(2-0-4)
208211	Writing	3(3-0-6)	214291	Creative Thinking	2(2-0-4)
208213	Analytical Reading	2(2-0-4)		Major Courses	57 credits
208214	Speed Reading	2(2-0-4)		Major Required Courses	36 credits
208312	Business Writing	3(3-0-6)	203221	Thai History: Early Period	3(3-0-6)
215351	News Writing	3(3-0-6)	203222	Thai History: Modern Period	3(3-0-6)
216412	Speech for Personality Development	3(3-0-6)	203231	History of Southeast Asia	3(3-0-6)
219355	Feature Writing	3(3-0-6)	203232	History of East Asia	3(3-0-6)
	Sociology Group	6 credits	203233	History of South Asia	3(3-0-6)
203215	Thai Civilization	3(3-0-6)	203241	History of Western Civilization I	3(3-0-6)
221355	World Community Today	3(3-0-6)	203242	History of Western Civilization II	3(3-0-6)
224241	International Relations	3(3-0-6)	203321	Local History	3(3-0-6)
221321	Politics and Government of the South	3(3-0-6)	203322	History of Eastern Thailand	3(3-0-6)
224322	Politics and Government of the North	3(3-0-6)	203351	Historical Methods	3(3-0-6)
221423	State and Civil Society	3(3-0-6)	203421	Seminar in Thai History	3(2-2-5)
225221	Cultural Anthropology	3(3-0-6)	203451	Sessional Paper	3(1-4-6)
225311	Rural Social	3(3-0-6)		Major Elective Courses	21 credits
225312	Urban Sociology	3(3-0-6)	203325	History of Thai Politics and Government	3(3-0-6)
225342	Research Methods in Social Sciences	3(3-0-6)	203326	Cultural History of Thai Tourism	3(3-0-6)
225423	Thai Society and Culture	3(3-0-6)	203327	History of Thai Architecture	3(3-0-6)
226211	Microeconomics I	3(3-0-6)	203335	History of the Middle East	3(3-0-6)
226212	Macroeconomics I	3(3-0-6)	203345	History of Latin America	3(3-0-6)
	Sociology Group	6 credits	203346	History of the United States	3(3-0-6)
204311	Comparative Philosophy	3(3-0-6)	203355	History of Historical Writing	3(3-0-6)
208281	Folklore	2(2-0-4)			

203365	Analytical Contemporary World Affairs	3(3-0-6)
203366	Islamic World	3(3-0-6)
203367	Comparative Civilization	3(3-0-6)
203368	History and Tourism	3(3-0-6)
203425	Economic History of Thailand	3(3-0-6)
203426	Thai Social and Intellectual History	3(3-0-6)
203427	Thai Diplomatic History	3(3-0-6)
203428	Gender in Thai History	3(3-0-6)
203429	Selected Topics in Thai History	3(3-0-6)
203435	History of Modern China	3(3-0-6)
203436	History of Modern Japan	3(3-0-6)
203437	Reading and Analysis in Southeast Asia History	3(3-0-6)
203438	Social and Cultural History of Modern Southeast Asia	3(3-0-6)
203445	Intellectual History of the Western World	3(3-0-6)
203446	History of Innovations and Inventions in the Western World	3(3-0-6)
203447	History of Modern Russian	3(3-0-6)
203465	Big Powers Diplomacy	3(3-0-6)
203466	Peace History	3(3-0-6)
232325	Archaeology in Thailand	3(3-0-6)
232326	Art and Architecture in Thailand	3(3-0-6)

232335 Art and Archaeology in
the Neighboring Countries
of Thailand 3(3-0-6)

233360 Museum Studies 3(3-0-6)

Minor Courses 18 credits

Students can select other minor courses
from other faculties in Burapha University on
approval of the Head of Department.

3. Free Elective Courses 6 credits

Students may take at least 6 credits
as free elective from courses provided at
Burapha University or other universities both
in Thailand and abroad to complete the
graduation requirement.

Bachelor of Arts Program in Japanese Language

Courses Structure

Students are required to take a
minimum of 132 credits from the following
sections:

1. General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology
Group 3 credits
 - Interdisciplinary Integration
Group 9 credits
 - Elective Courses 4 credits

2. Area of Concentration Courses	96 credits
- Major Courses	78 credits
- Minor Courses	18 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-0-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)

Elective Courses 4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses	96 credits
Major Courses	78 credits
Major Elective Courses	51 credits
207111 Japanese I	3(2-3-4)
207112 Japanese II	3(2-3-4)
207213 Japanese III	3(2-3-4)
207214 Japanese IV	3(2-3-4)
207221 Japanese Listening-Speaking I	3(3-0-6)
207222 Japanese Listening-Speaking II	3(3-0-6)
207231 Japanese Reading I	3(3-0-6)
207232 Japanese Reading II	3(3-0-6)
207241 Japanese Writing I	3(3-0-6)
207315 Japanese V	3(2-3-4)
207316 Japanese VI	3(2-3-4)
207323 Japanese Listening-Speaking III	3(3-0-6)
207324 Japanese Listening-Speaking IV	3(3-0-6)
207333 Japanese Reading III	3(3-0-6)
207342 Japanese Writing II	3(3-0-6)
207425 Japanese Business Conversation I	3(3-0-6)
207451 Japanese Translation I	3(3-0-6)

Major Elective Courses	27 credits
207261 Japanese Linguistics	3(3-0-6)
207334 Japanese Newspaper Reading	3(3-0-6)
207362 Japanese Structure	3(3-0-6)
207371 Japanese Folklore	3(3-0-6)
207372 Japanese Literary Works	3(3-0-6)
207381 Japanese Culture	3(3-0-6)
207382 Japanese Today	3(3-0-6)
207426 Japanese Business Conversation II	3(3-0-6)
207443 Japanese Business Writing	3(3-0-6)
207452 Japanese Translation II	3(3-0-6)
207453 Japanese for Hotel Business	3(3-0-6)
207454 Japanese for Tour Guides I	3(3-0-6)
207455 Japanese for Tour Guides II	3(3-0-6)
207456 Japanese for Industry	3(3-0-6)
207457 Japanese for Mass Communication	3(3-0-6)
207463 Teaching Japanese as a foreign Language	3(3-0-6)
207473 Japanese Short Stories	3(3-0-6)
207483 Japanese Seminar	3(3-0-6)
Minor Courses	18 credits

Students can select other minor from other faculties in Burapha University on approval from the Head of Department.

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha

University or other universities both in Thailand and abroad.

Bachelor of Arts Program in Korean Language

Courses Structure

Students are required to take a minimum of 132 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses	96 credits
- Major Courses	78 credits
- Minor Courses	18 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)

212104	English IV	3(3-0-6)	205214	Korean IV	3(2-3-4)
	Professional English	6 credits	205221	Korean Listening-Speaking I	
212201	English for Humanities and Social Sciences I	3(2-2-5)			3(3-0-6)
212207	English Communicative Speaking		205222	Korean Listening-Speaking II	
		3(2-2-5)			3(3-0-6)
212208	English Writing Skills	3(3-0-6)	205231	Korean Reading I	3(3-0-6)
	Thai Group	2 credits	205232	Korean Reading II	3(3-0-6)
208101	Thai Language Skills	2(2-0-4)	205241	Korean Writing I	3(3-0-6)
	Information Technology Group	3 credits	205315	Korean V	3(2-3-4)
310101	Computer and the Internet	3(2-2-5)	205316	Korean VI	3(2-3-4)
	Interdisciplinary Integration Group	9 credits	205323	Korean Listening-Speaking III	
999101	Interdisciplinary Integration I				3(3-0-6)
		3(3-0-6)	205324	Korean Listening-Speaking IV	
999102	Interdisciplinary Integration II				3(3-0-6)
		3(3-0-6)	205333	Korean Reading III	3(3-0-6)
999103	Interdisciplinary Integration III		205342	Korean Writing II	3(3-0-6)
		3(3-0-6)	205425	Korean Business Conversation I	
	Elective Courses	4 credits			3(3-0-6)
	A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.				
	2. Area of Concentration Courses	96 credits	205451	Korean Translation I	3(3-0-6)
	Major Courses	78 credits		Major Elective Courses	27 credits
	Major Required Courses	51 credits	205261	Korean Linguistics	3(3-0-6)
205111	Korean I	3(2-3-4)	205334	Korean Newspaper Reading	3(3-0-6)
205112	Korean II	3(2-3-4)	205362	Korean Structure	3(3-0-6)
205213	Korean III	3(2-3-4)	205371	Korean Folklore	3(3-0-6)
			205372	Korean Literary Works	3(3-0-6)
			205381	Korean Culture	3(3-0-6)
			205382	Korean Today	3(3-0-6)
			205426	Korean Business Conversation II	
					3(3-0-6)
			206443	Korean Business Writing	3(3-0-6)
			205452	Korean Translation II	3(3-0-6)

205453	Korean for Hotel Business	3(3-0-6)
205454	Korean for Tour Guides I	3(3-0-6)
205455	Korean for Tour Guides II	3(3-0-6)
205456	Korean for Industry	3(3-0-6)
205457	Korean for Mass Communication	3(3-0-6)
205463	Teaching Korean as a foreign Language	3(3-0-6)
205473	Korean Short Stories	3(3-0-6)
205483	Korean Seminar	3(3-0-6)
	Minor Courses	18 credits

Students can select other minor from other faculties in Burapha University on approval from the Head of Department.

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Bachelor of Arts Program in Religions and Philosophy

Courses Structure

Students are required to take a minimum of 129 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Area of Concentration Courses

	93 credits
- Major Courses	75 credits
- Minor Courses	18 credits

3. Free Elective Courses 6 credits

1. General Education Courses 30 credits

Required Courses 26 credits

English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)

Professional English	6 credits	204213 Eastern Philosophy : Chinese	
212201 English for Humanities and		and Japanese	3(3-0-6)
Social Sciences I	3(2-2-5)	204231 Buddhist Principles	3(3-0-6)
212207 English Communicative Speaking		204232 Buddhist in Thailand	3(3-0-6)
	3(2-2-5)	204251 Ethics	3(3-0-6)
Thai Group	2 credits	204261 Aesthetics	3(3-0-6)
208101 Thai Language Skills	2(2-0-4)	204314 Taoism and Confucianism	3(3-0-6)
Information Technology		204334 Principles of Christianity	
Group	3 credits	and Islam	3(3-0-6)
310101 Computer and the Internet	3(2-2-5)	204421 Metaphysics and Epistemology	
Interdisciplinary Integration			3(3-0-6)
Group	9 credits	204481 Independent Study	3(3-0-6)
999101 Interdisciplinary Integration I		Major Required Courses	33 credits
	03(3-0-6)	204131 Religions and Religious	
999102 Interdisciplinary Integration II		Phenomena	3(3-0-6)
	3(3-0-6)	204214 The Art of Living with Others	
999103 Interdisciplinary Integration III			3(3-0-6)
	3(3-0-6)	204234 Christianity	3(3-0-6)
Elective Courses	4 credits	204235 Islam	3(3-0-6)
A minimum requirement for elective		204311 Thai Philosophy	3(3-0-6)
courses is 4 credits. Students can select from		204312 Western Philosophy II	3(3-0-6)
General Education Courses which are offered in		204313 Contemporary Indian Philosophy	
other faculties from the General Education			3(3-0-6)
Courses Manual (2002), Burapha University.		204315 Buddhist Philosophy	
2. Area of Concentration Courses	93 credits	of Education	3(3-0-6)
Major Courses	75 credits	204321 Philosophy in Literature	3(3-0-6)
Major Required Courses	42 credits	204331 Theravada Buddhist	3(3-0-6)
204111 Introduction to Philosophy	3(3-0-6)	204332 Mahayana Buddhist	3(3-0-6)
204132 Introduction to Religions	3(3-0-6)	204333 Buddhist and the Environment	
204141 Introduction to Logic	3(3-0-6)		3(3-0-6)
204211 Ancient Indian Philosophy	3(3-0-6)		
204212 Western Philosophy I	3(3-0-6)		

204335	Religion, Science and Society	3(3-0-6)
204341	Symbolic Logic	3(3-0-6)
204422	Theravada and Mahayana Buddhist Philosophy	3(3-0-6)
204423	Social and Political Philosophy	3(3-0-6)
204424	Philosophical Principles in Everyday Life	3(3-0-6)
204425	Comparative Philosophy	3(3-0-6)
204426	Philosophical Thoughts of Buddhist Scholars	3(3-0-6)
204431	Comparative Religions	3(3-0-6)
204471	Introduction to Buddhist Psychological Principles	3(3-0-6)
204472	Buddhist Meditation	3(3-0-6)

Minor Courses 18 credits

Students can select other minor from other faculties in Burapha University on approval from the Head of Department.

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Bachelor of Arts Program in Thai

Courses Structure

Students are required to take a minimum of 120 credits from the following sections:

- General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits
- Area of Concentration Courses 84 credits
 - Major Courses 66 credits
 - Minor Courses 18 credits
- Free Elective Courses 6 credits

1. General Education Courses 30 credits

Required Courses 26 credits

English Group 12 credits

Basic English 6 credits

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits

212201 English for Humanities and
Social Sciences I 3(2-2-5)

212202	English for Humanities and Social Sciences II	3(2-2-5)	208271	Contemporary Literature	2(2-0-4)
212208	English Writing Skills	3(3-0-6)	208281	Folklore	2(2-0-4)
	Thai Group	2 credits	208321	Pali and Sanskrit	3(3-0-6)
208101	Thai Language Skills	2(2-0-4)	208322	Pali and Sanskrit in Thai	2(2-0-4)
	Information Technology Group	3 credits	208323	Khmer in Thai	2(2-0-4)
310101	Computer and the Internet	3(2-2-5)	208351	Comparative Literature	3(3-0-6)
	Interdisciplinary Integration Group	9 credits	208352	Literary Criticism	3(3-0-6)
999101	Interdisciplinary Integration I	3(3-0-6)	208361	Masterpieces of Thai Literature	3(3-0-6)
999102	Interdisciplinary Integration II	3(3-0-6)	208391	Research on Thai I	2(2-0-4)
999103	Interdisciplinary Integration III	3(3-0-6)	208392	Research on Thai II	3(1-4-6)
	Elective Courses	4 credits	208431	Evolution of Thai Language	2(2-0-4)
	A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.		208461	Buddhist Literature	2(2-0-4)
	2. Area of Concentration Courses	84 credits	208491	Problems in Contemporary Thai Usage	2(2-0-4)
	Major Courses	66 credits	Major Elective Courses	19 credits	
	Major Professional Courses	2 credits	208212	Writing II	2(2-0-4)
208201	Effective Speech	2(2-0-4)	208214	Speed Reading	2(2-0-4)
	Major Required Courses	45 credits	208215	Oral Reading	2(1-2-3)
208211	Writing I	3(3-0-6)	208233	Thai Regional Dialects	2(2-0-4)
208213	Analytical Reading	2(2-0-4)	208262	Niras	2(2-0-4)
208231	Linguistics	3(3-0-6)	208263	Poetic Tales	2(2-0-4)
208232	Linguistics II	3(2-2-5)	208264	King Rama II's Works	2(2-0-4)
208261	Evolution of Thai Literature	3(3-0-6)	208265	Didactic Literature	2(2-0-4)
			208272	Literary Works for Children	2(2-0-4)
			208311	Non-Fiction Writing	3(3-0-6)
			208312	Business Writing	3(3-0-6)
			208324	Khmer	2(2-0-4)
			208325	Development of Thai Textbooks	2(2-0-4)

208326	Characteristics of the Thai Language	3(3-0-6)
208331	Semantics	2(2-0-4)
208332	Language and Culture	2(2-0-4)
208333	Language and Society	2(2-0-4)
208334	Applied Linguistics	2(2-0-4)
208335	Historical Linguistics	3(3-0-6)
208353	Evolution of Prose and Poetry	2(2-0-4)
208362	Historical Literature	2(2-0-4)
208363	Drama	2(2-0-4)
208364	Jataka Literature	3(3-0-6)
208371	Soonthornpoo's Works	2(2-0-4)
208372	Regional Literature	2(2-0-4)
208373	Translated Literary Works	2(2-0-4)
208381	Research on Folklore	2(2-0-4)
208411	Poetry Writing	3(3-0-6)
208412	Fiction Writing	3(3-0-6)
208421	Logic of Language	2(2-0-4)
208422	Khmer Orthography	2(2-0-4)
208423	Thai Inscription	3(3-0-6)
208424	Language in Mass Media	3(3-0-6)
208432	Etymology	2(2-0-4)
208433	Languages in Southeast Asia	2(2-0-4)
208434	Linguistics and Thai Literature	2(2-0-4)
208435	Discourse Analysis	2(2-0-4)
208436	Loanwords in Thai	2(2-0-4)
208462	Literature Based on Thai Customs	2(2-0-4)

208463 Choapraya Praklanhol's Works 2(2-0-4)

208464 Prince Bidyalongkom's Works 2(2-0-4)

208471 Literature and Musical Art 2(2-0-4)

208472 Political Literature 2(2-0-4)

Minor Courses 18 credits

Students can select other minor courses from other faculties in Burapha University on approval from the Head of Department.

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Bachelor of Business Administration Program in Human Resource Management

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits

- Interdisciplinary Integration	
Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses	
	99 credits
- Basic Professional Courses	
	54 credits
- Major Required Courses	
	36 credits
- Major Elective Courses	9 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-0-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)

	Information Technology	
	Group	3 credits
310101 Computer and the Internet		3(2-2-5)
	Interdisciplinary Integration	
	Group	9 credits
999101 Interdisciplinary Integration I		3(3-0-6)
999102 Interdisciplinary Integration II		3(3-0-6)
999103 Interdisciplinary Integration III		3(3-0-6)
	Elective Courses	4 credits
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.		
2. Area of Concentration Courses		99 credits
	Basic Professional Courses	54 credits
226211 Microeconomics I		3(3-0-6)
226212 Macroeconomics I		3(3-0-6)
227211 Business Finance		3(3-0-6)
228211 Principles of Marketing		3(3-0-6)
229212 Financial Accounting		3(2-2-5)
229231 Accounting for Decision Making		3(3-0-6)
230211 Business Law		3(3-0-6)
230221 Principles of Management		3(3-0-6)
230231 Taxation		3(3-0-6)
230321 Quantitative Analysis in Management		3(3-0-6)

230322	Production and Operation Management	3(3-0-6)	Major Elective Courses	9 credits
230323	Management Information System	3(3-0-6)	212371	Business English 2(2-0-4)
230411	Business Research Methodology	3(3-0-6)	214361	Communication in Organization 2(2-0-4)
230421	Strategic Management	3(3-0-6)	216322	Persuasive Communication 2(2-0-4)
244211	Human Resource Management	3(3-0-6)	216441	Presentation Techniques 3(3-0-6)
302117	Calculus for Business	3(3-0-6)	216465	Conference Procedure 2(2-0-4)
310381	Computer in Business	3(2-2-5)	230324	Small and Medium Enterprise Management 3(3-0-6)
312201	Elementary Statistics	3(3-0-6)	230325	Entrepreneurship 3(3-0-6)
	Major Elective Courses	36 credits	244262	Principles of Industrial Relations 3(3-0-6)
222231	Developmental Psychology	3(3-0-6)	244332	Organization Development 3(3-0-6)
222251	Industrial and Organizational Psychology	3(3-0-6)	244371	Public Relation in Organization 3(3-0-6)
244212	Organizational Behavior	3(3-0-6)	244372	Quality Control and Productivity 3(3-0-6)
244261	Labour Law	3(3-0-6)	244472	Leadership 3(3-0-6)
244321	Recruitment and Selection	3(3-0-6)	244474	Independent Study 3(0-0-9)
244331	Training and Development	3(3-0-6)	244475	Cooperation Education 9(0-0-27)
244333	Counseling and Career Planning	3(3-0-6)	3. Free Elective Courses	6 credits
244351	Performance Appraisal	3(3-0-6)		Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.
244361	Labour Relation	3(3-0-6)		
244441	Compensation Management	3(3-0-6)		
244471	Human Resource Information System	3(3-0-6)		
244473	Seminar in Human Resource Management	3(3-0-6)		

Bachelor of Business Administration

Program in Marketing

Courses Structure

Students are required to take a minimum of 134 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses	98 credits
- Basic Professional Courses	53 credits
- Major Required Courses	30 credits
- Major Elective Courses	15 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)

212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-0-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 102 credits**Basic Professional Courses 54 credits**

212371	Business English	2(2-0-4)
226211	Microeconomics I	3(3-0-6)
226212	Macroeconomics I	3(3-0-6)
227221	Business Finance	3(3-0-6)
229212	Financial Accounting	3(2-2-5)
229231	Accounting for Decision Making	3(3-0-6)
230211	Business Law	3(3-0-6)
230221	Principles of Management	3(3-0-6)
230231	Taxation	3(3-0-6)
230212	Business Economics	3(3-0-6)
230321	Quantitative Analysis in Management	3(3-0-6)
230322	Production and Operation Management	3(3-0-6)
230323	Management Information System	3(3-0-6)
230421	Strategic Management	3(3-0-6)
244211	Human Resource Management	3(3-0-6)
302117	Calculus for Business	3(3-0-6)
310381	Computer in Business	3(2-2-5)
312201	Elementary Statistics	3(3-0-6)
Major Required Courses 30 credits		
228212	Marketing Management	3(3-0-6)
228221	Consumer Behavior	3(3-0-6)
228231	Service Marketing	3(3-0-6)
228331	Product and Price Policies	3(3-0-6)

228351 Advertising and Sales Promotion 3(3-0-6)

228352 Sales Management 3(3-0-6)

228361 International Marketing 3(3-0-6)

228441 Marketing Channels and Physical Distribution Management 3(3-0-6)

228471 Marketing Research 3(3-0-6)

228481 Seminar in Marketing 3(3-0-6)

Major Elective Courses 15 credits

228341 Wholesaling Management 3(3-0-6)

228342 Retailing Management 3(3-0-6)

228343 Purchasing Management 3(3-0-6)

228431 Industrial Marketing 3(3-0-6)

228432 Agricultural Marketing 3(3-0-6)

228433 Packaging Management 3(3-0-6)

228442 Electronic Marketing 3(3-0-6)

228461 Import and Export Management 3(3-0-6)

230324 Small and Medium Enterprise Management 3(3-0-6)

230422 Project Management 3(3-0-6)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Bachelor of Communication Arts

Program

Courses Structure

Students are required to take a minimum of 139 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Area of Concentration Courses

	100 credits
- Core Courses	45 credits
- Professional Courses	37 credits
- Minor Courses	18 credits

3. Free Elective Courses 9 credits

1. General Education Courses 30 credits

Required Courses 26 credits

English Group 12 credits

Basic English 6 credits

212101	English I	3(3-0-6)
212102	English II	3(3-0-6)
212103	English III	3(3-0-6)
212104	English IV	3(3-0-6)

Professional English 6 credits

212207 English Communicative Speaking 3(2-2-5)

212208 English Writing Skills 3(3-0-6)

Thai Group 2 credits

208101 Thai Language Skills 2(2-0-4)

Information Technology

Group 3 credits

310101 Computer and the Internet 3(2-2-5)

Interdisciplinary Integration

Group 9 credits

999101 Interdisciplinary Integration I 3(3-0-6)

999102 Interdisciplinary Integration II 3(3-0-6)

999103 Interdisciplinary Integration III 3(3-0-6)

Elective Courses 4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 100 credits

Core Courses 45 credits

214111	Introduction to Communication Arts	3(3-0-6)
214121	Language for Communication I	3(3-0-6)
214212	Introduction to Photography	3(2-2-5)
214213	Introduction to Film	3(3-0-6)

214222	Language for Communication II	3(3-0-6)	215462	Public Relations Planning and Evaluation	3(3-0-6)
214241	Communication and Information Technology	3(3-0-6)	215463	Public Relations Campaigns	3(3-0-6)
214351	Research Methodology in Communication Arts	3(3-0-6)	Major Elective Courses 17 credits		
214381	Laws and Ethics of Mass Media	3(3-0-6)	214353	Statistics for Communication Research	2(2-0-4)
214451	Internship	3(0-18-9)	214364	Communication in Organization	2(2-0-4)
215111	Introduction to Public Relations	3(3-0-6)	214391	Creative Thinking	3(3-0-6)
215261	Communication and Public Opinion	3(3-0-6)	215341	Photography for Public Relations	2(1-2-3)
216211	Introduction to Speech Communication	3(3-0-6)	215365	Press Relations	2(2-0-4)
217111	Introduction to Advertising	3(3-0-6)	215423	Advanced Writing for Public Relations	2(2-0-4)
218111	Introduction to Broadcasting	3(3-0-6)	215424	Critical Thinking	2(2-0-4)
219111	Introduction to Journalism	3(3-0-6)	215442	New Media for Public Relations	2(1-2-3)
Professional courses		37 credits	215466	Public Relations Administration	3(3-0-6)
1. Public Relation			215467	Traditional Media for Public Relations	2(2-0-4)
Major Required Courses		20 credits	215468	Integrated Marketing Communications	3(3-0-6)
215221	Writing for Public Relations	3(3-0-6)	215469	Issue Management and Public Affairs	2(2-0-4)
215322	Comparative Public Relations	2(2-0-4)	215471	Communication During Crisis	2(2-0-4)
215351	Public Relations Research	1(1-4-4)	215472	Community Relations	2(2-0-4)
215361	Media and Activities for Public Relations	3(3-0-6)	215473	Investor Relations	2(2-0-4)
251452	Seminar on Public Relations Issues	3(3-0-6)	215474	Political Communication	2(2-0-4)
			215491	Independent Study	2(0-0-6)

216322	Persuasive Communication	2(2-0-4)	216362	Intercultural Communication	2(2-0-4)
216391	Personality and Manners	2(2-0-4)			
216441	Techniques and Technology for Presentation	3(3-0-6)	216363	Human Resource Development	2(2-0-4)
219221	Fundamentals of News Reporting	2(2-0-4)	216391	Personality and Manners	2(2-0-4)
219364	Printed Media Production	3(2-2-5)	216392	Speech for Business	2(2-0-4)
2. Speech Communication			216431	Effective Speech	3(3-0-6)
	Major Required Courses	19 credits	216432	Announcers and Master of Ceremonies	2(1-2-3)
216221	Rhetorical Theory and Criticism	3(3-0-6)	216441	Techniques and Technology for Presentation	3(3-0-6)
216322	Persuasive Communication	2(2-0-4)	216451	Speech Communication Research	3(1-4-4)
216323	Interpersonal Communication	3(3-0-6)	216452	Seminar on Speech Communication Problem	3(3-0-6)
216324	Psychology of Speech and Audience Analysis	3(3-0-6)	216464	Interviewing Techniques	2(2-0-4)
216325	Speech Composition	3(3-0-6)	216465	Conference Procedure	2(2-0-4)
216426	Argumentation and Debate	2(2-0-4)	216493	Speech for Specific Careers	3(3-0-6)
216461	Public Speaking	3(3-0-6)	216494	Independent Study	3(0-0-9)
	Major Elective Courses	18 credits	219364	Printed Media Production	3(2-2-5)
214353	Statistics for Communication Research	2(2-0-4)	3. Advertising		
214364	Communication in Organization	2(2-0-4)		Major Required Courses	20 credits
214391	Creative Thinking	3(3-0-6)	217321	Creative Copy Writing	2(2-0-4)
215471	Political Communication	2(2-0-4)	217351	Advertising Research	3(1-4-4)
216327	Phonetics for Speech Communication	2(2-0-4)	217361	Consumer Behavior	2(2-0-4)
216328	Oral Interpretation	2(2-0-4)	217362	Advertising Creative Strategy	3(3-0-6)
216329	Principle of Language Behavior	2(2-0-4)	217463	Advertising Media Planning	3(3-0-6)
			217464	Advertising Management	3(3-0-6)
			217465	Advertising Campaign Planning	3(3-0-6)

228211	Principle of Marketing	3(3-0-6)	218462	Television News Presentation	1(0-3-0)
	Major Elective Courses	17 credits			
214391	Creative Thinking	3(3-0-6)		Major Elective Courses	16 credits
216322	Persuasive Communication	2(2-0-4)	214353	Statistics for Communication	
216391	Personality and Manners	2(2-0-4)		Research	2(2-0-4)
216441	Techniques and Technology		214391	Creative Thinking	3(3-0-6)
	for Presentation	3(3-0-6)	215471	Political Communication	2(2-0-4)
217322	Advanced Creative Copy Writing		216322	Persuasive Communication	2(2-0-4)
		2(2-0-4)	216441	Techniques and Technology	
217366	Management of Advertising			for Presentation	3(3-0-6)
	Production	3(3-0-6)	216432	Announcers and Master of	
217381	Advertising and Society	2(2-0-4)		Ceremonies	2(1-2-3)
217423	Case Analysis of Advertising		216461	Interviewing Techniques	2(2-0-4)
	Problem	3(3-0-6)	218222	Translation in Mass Communication	
217451	Seminar on Advertising Issues				3(3-0-6)
		3(3-0-6)	218352	Seminar in Mass Communication	
217467	International Advertising	2(2-0-4)			3(3-0-6)
219364	Printed Media Production	3(2-2-5)	218363	Mass Media for Social	
				Development	3(3-0-6)
4. Mass Communication			218364	Public Communication	3(3-0-6)
	Major Required Courses	21 credits	218365	Political Use of Mass Media	2(2-0-4)
218211	Theories of Mass Communication		218391	Mass Communication and	
		2(2-0-4)		Culture	2(2-0-4)
218321	Writing for Mass Communication		218423	Information Gathering and	
		3(3-0-6)		Interpretation	3(3-0-6)
218341	Radio Production I	3(2-2-5)	218443	Documentary Program Production	
218342	Radio Production II	3(1-4-5)			2(1-2-3)
218351	Research in Mass Communication		218465	Broadcasting Management	3(3-0-6)
		3(1-4-4)	218466	Drama Communication for	
218361	Radio News Presentation	1(0-3-0)		Broadcasting	2(1-2-3)
218443	Television Production I	3(1-4-4)	218467	Music for Communication	2(2-0-4)
218444	Television Production II	3(0-9-0)			

218468	Mass Media Planning and Evaluation	3(3-0-6)
5. Journalism		
Major Required Courses		19 credits
219221	Fundamentals of News Reporting	3(3-0-6)
219322	Advanced News Reporting	3(3-0-6)
219323	Creative Writing in Journalism	3(3-0-6)
219341	Printed Media Design	2(1-2-3)
219342	Information Systems for Journalism	3(2-2-5)
219361	Newspaper and Magazine Editing	3(3-0-6)
219451	Journalism Practice	3(1-4-4)
Major Elective Courses		18 credits
214391	Creative Thinking	3(3-0-6)
216322	Persuasive Communication	3(3-0-6)
219324	Interpretation of Current Affairs	3(3-0-6)
219325	Editorial and Article Writing	3(3-0-6)
219326	Feature Writing	3(3-0-6)
219327	News Translation and English News Writing	3(3-0-6)
219343	Photojournalism	3(1-4-4)
219344	Electronic Newspaper	3(2-2-5)
219345	Printing Technology	3(3-0-6)
219352	Research in Journalism	3(1-4-4)
219362	Community Newspaper	3(2-2-5)
219363	Media in e-Society	3(3-0-6)

219364	Printed Media Production	3(2-2-5)
219453	Seminar in Journalism	3(2-2-5)
219465	Book Publishing	3(3-0-6)
219466	Printing Management	3(3-0-6)
219467	Magazine Production	3(2-2-5)
219481	Information Technology Law	3(3-0-6)

Minor Courses 18 credits

Students can select other minor from other faculties in Burapha University on approval from the Head of Department.

3. Free Elective Courses 9 credits

Students may take at least 9 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Bachelor of Economics Program

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits

- Interdisciplinary Integration	
Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses	90 credits
- Major Courses	72 credits
- Minor Courses	15 credits
3. Free Elective Courses	10 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212207 English Communicative Speaking	3(2-2-5)
212208 English Writing Skills	3(3-3-6)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology	
Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration	
Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)

999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.	
2. Area of Concentration Courses	90 credits
Major Courses	72 credits
Major Required Courses	42 credits
226211 Microeconomics I	3(3-0-6)
226212 Macroeconomics I	3(3-0-6)
226271 Mathematics for Economists	3(3-0-6)
226272 Statistics for Economics	3(3-0-6)
226313 Microeconomic II	3(3-0-6)
226314 Macroeconomics II	3(3-0-6)
226321 Agricultural Economics	3(3-0-6)
226331 Economics of Money and Banking	3(3-0-6)
226341 Industrial Economics	3(3-0-6)
226351 Economic Development	3(3-0-6)
226352 The Economy of Thailand	3(3-0-6)
226361 Public Development	3(3-0-6)
226381 International Economics	3(3-0-6)
226415 Seminar in Economics	3(3-0-6)
226473 Economics Research Methodology	3(3-0-6)
302115 Calculus for Economics I	3(3-0-6)
302116 Calculus for Economics II	3(3-0-6)
312201 Elementary Statistics	3(3-0-6)

321211 Statistical Method 3(3-0-6)
Major Elective Courses 15 credits

226332 Monetary Theory and Policy
 3(3-0-6)

226333 Financial Market 3(3-0-6)

226342 Industrial Operation 3(3-0-6)

226343 Economics of Industrial Marketing
 3(3-0-6)

226344 Economics of Technology 3(3-0-6)

226353 Economics Development
 Theory 3(3-0-6)

226354 Project Analysis 3(3-0-6)

226434 International Monetary Economics
 3(3-0-6)

226435 Monetary Institution
 and Management 3(3-0-6)

226436 Quantitative Analysis for
 Monetary Economics 3(3-0-6)

226445 Economics for Transportation
 3(3-0-6)

226446 Economics for Environment 3(3-0-6)

226455 Economic Development in Asia
 3(3-0-6)

Minor Courses 18 credits

Students can select other minor from other faculties in Burapha University on approval from the Head of Department.

3. Free Elective Courses 9 credits

Students may take at least 9 credits as free elective credits to complete the graduation requirement from courses provided at Burapha

University or other universities both in Thailand and abroad.

Bachelor of Science Program in Geo-Information Technology

Courses Structure

Students are required to take a minimum of 136 credits from the following sections:

1. General Education Courses

30 credits

Required Courses 26 credits

- English Group 12 credits

- Thai Group 2 credits

- Information Technology
 Group 3 credits

- Interdisciplinary Integration
 Group 9 credits

Elective Courses 4 credits

2. Area of Concentration Courses

100 credits

- Basic Profession Courses
 6 credits

- Major Courses 76 credits

- Minor Courses 18 credits

3. Free Elective Courses 6 credits

1. General Education Courses 30 credits**Required Courses 26 credits****English Group 12 credits**

Basic English 6 credits

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits

212205 English for Science and
Technology I 3(2-2-5)212207 English Communicative Speaking
3(2-2-5)**Thai Group 2 credits**

208101 Thai Language Skills 2(2-0-4)

**Information Technology
Group 3 credits**

310101 Computer and the Internet 3(2-2-5)

**Interdisciplinary Integration
Group 9 credits**999101 Interdisciplinary Integration I
3(3-0-6)999102 Interdisciplinary Integration II
3(3-0-6)999103 Interdisciplinary Integration III
3(3-0-6)**Elective Courses 4 credits**

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 100 credits**Basic Professional Courses 6 credits**

310322 C Programming 3(2-2-5)

310371 Internet Technologies 3(3-0-6)

Major Courses 76 credits**Major Required Courses 43 credits**

223102 Introduction to Geography 2(2-0-4)

223211 Map Reading and Aerial Photo
Interpretation 3(2-2-5)223212 Introduction to Remote Sensing
and Geographic Information System

3(2-2-5)

223214 Photogrammetry 3(2-2-5)

223215 Remote Sensing 3(2-2-5)

223216 Geographic Information System
3(2-2-5)

223251 Physical Geography I 3(2-2-5)

223252 Physical Geography II 3(2-2-5)

223306 Research Methodology
in Geography 3(2-2-5)

223422 Computer Mapping 3(2-2-5)

223424 Land Use Mapping Techniques
3(2-2-5)223427 Geography Database
Management System 3(2-2-5)223428 Seminar in Geo-Informatics
System 3(2-2-5)

223490 Practicum 2(0-6-12)

223492 Problems in Geography
of Thailand 3(3-0-6)

Major Elective Courses	33 credits
223213 Statistical Techniques in Geography	3(3-0-6)
223231 Human Geography	3(3-0-6)
223232 Human Ecology	3(3-0-6)
223254 Geomorphology	3(2-2-5)
223317 Topographic Survey	3(2-2-5)
223318 Plane Survey	3(2-2-5)
223319 Cartography	3(2-2-5)
223320 Global Positioning System	3(2-2-5)
223321 Three Dimensions Mapping	3(2-2-5)
223337 Urban Geography	3(3-0-6)
223338 Rural Geography	3(3-0-6)
223340 Industrial Geography	3(3-0-6)
223357 Coastal Geography	3(3-0-6)
223376 Environmental Law and Policy	2(2-0-4)
223377 Environmental Impact Assessment	3(2-2-5)
223391 Regional Geography	3(3-0-6)
223393 Geography of Eastern Thailand	3(3-0-6)
223394 Local Geography	3(3-0-6)
223395 Geography of Asia	3(3-0-6)
223396 World Geography	3(3-0-6)
223425 Urban Geo-Informatics	3(2-2-5)
223426 Geo-Informatics System for Natural Resource Management	3(2-2-5)
223442 Political Geography	3(3-0-6)
223444 Geography of Tourism	3(3-0-6)

Minor Courses 18 credits

Students can select other minor from other faculties in Burapha University on approval from the Head of Department.

Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

**Bachelor of Science Program in
Psychology**

Courses Structure

Students are required to take a minimum of 138 credits from the following sections:

1. General Education Courses

30 credits

Required Courses 26 credits

- English Group 12 credits

- Thai Group 2 credits

- Information Technology Group 3 credits

- Interdisciplinary Integration Group 9 credits

Elective Courses 4 credits

2. Area of Concentration Courses

102 credits

- Major Courses 84 credits

- Minor Courses 18 credits

3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212201 English for Humanities and Social Sciences I	3(2-2-5)
212202 English for Humanities and Social Sciences II	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in	

other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses	102 credits
Major Courses	84 credits
Core Courses	39 credits
222111 General Psychology	3(3-0-6)
222211 Physiological Psychology	3(3-0-6)
222212 Perception and Learning Psychology	3(3-0-6)
222213 Motivation and Personality Psychology	3(3-0-6)
222221 Measurement and Psychological Testing	3(3-0-6)
222232 Child and Adolescent Psychology	3(3-0-6)
222233 Adult and Aging Psychology	3(3-0-6)
222261 Introduction to Social Psychology	3(3-0-6)
222281 Health and Environmental Psychology	3(3-0-6)
222321 Research Method and Statistics in Psychology I	3(2-2-5)
222322 Research Method and Statistics in Psychology II	3(2-2-5)
222421 Statistical Package for Psychological Research	3(1-4-4)
222481 Moral Psychology	3(3-0-6)

Major Professional Courses 45 credits

**1. Industrial and Organizational
Psychology Group**

Major Required Courses 30 credits

222251	Introduction to Industrial and Organizational Psychology	3(3-0-6)
222252	Personnel Psychology	3(3-0-6)
222253	Psychology at Work	3(3-0-6)
222351	Consumer and Advertising Psychology	3(3-0-6)
222352	Psychology of Human Resource Development	3(3-0-6)
222353	Psychology of Industrial Relations	3(3-0-6)
222442	Psychology of Career Counseling	3(3-0-6)
222451	Psychological Testing in Organization	3(3-0-6)
222452	Seminar in Industrial and Organizational Psychology	3(3-0-6)
222453	Practicum in Industrial and Organizational Psychology	3(0-9-6)
Major Elective Courses 15 credits		
222254	Organization Behavior Modification	3(3-0-6)
222341	Introduction to Counseling Psychology	3(3-0-6)
222354	Psychology of Design and Evaluation	3(3-0-6)
222355	Psychology of Organization Effectiveness	3(3-0-6)

222356	Psychology of Problem Solving and Decision Making	3(3-0-6)
222357	Psychology of Conflict Management	3(3-0-6)
222358	Psychology of Career Planning and Information Service	3(3-0-6)
222455	Industrial Psychology and Modernization	3(3-0-6)
222456	Psychology of Organizational Development	3(3-0-6)
222457	Individual Research in Industrial and Organizational Psychology	3(3-0-6)
711406	Ergonomics	3(3-0-6)

**2. Social and Community
Psychology Group**

Major Required Courses 30 credits

222262	Advanced Social Psychology	3(3-0-6)
222263	Community Psychology	3(3-0-6)
222264	Psychology of Family and Society	3(3-0-6)
222361	Psychology of Communication and Persuasion	3(3-0-6)
222362	Psychology of Interpersonal Relations	3(3-0-6)
222363	Leadership and Group Effectiveness	3(3-0-6)
222461	Attitude and Opinion	3(3-0-6)
222462	Violence and Criminal Psychology	3(3-0-6)

222463	Seminar in Social and Community Psychology	3(3-0-6)
222464	Practicum in Social and Community Psychology	3(0-9-6)
Major Elective Courses		15 credits
222231	Developmental Psychology	3(3-0-6)
222271	Mental Hygiene	3(3-0-6)
222341	Introduction to Counseling Psychology	3(3-0-6)
222342	Interview Skills	3(3-0-6)
222364	Sex Role and Social Behavior	3(3-0-6)
222365	Psychology of Cultural Disadvantaged Children	3(3-0-6)
222366	Psychology of Juvenial Delinquency	3(3-0-6)
222371	Abnormal Psychology	3(3-0-6)
222372	Psychology of Exceptional Children	3(3-0-6)
222465	Psychology of Social Work	3(3-0-6)
222466	Psychology of Bargaining and Interest Groups	3(3-0-6)
222467	Individual Research in Social and Community Psychology	3(3-0-6)
Minor Courses		18 credits
Students can select other minor courses from other faculties in Burapha University on approval from the Head of Department.		

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Bachelor of Accountancy Program in Accounting (Continuing program)

Courses Structure

Students are required to take a minimum of 76 credits from the following sections:

1. General Education Courses
 - 13 credits
 - English Group 6 credits
 - Information Technology
-Group 3 credits
 - Elective Courses 4 credits
2. Area of Concentration Courses
 - 57 credits
 - Basic Professional course
30 credits
 - Major Required Courses
21 credits
 - Major Elective Courses
6 credits
3. Free Elective Courses 6 credits

1. General Education Courses	13 credits	229331	Cost Accounting	3(3-0-6)
English Group	6 credits	229332	Managerial Accounting	3(3-0-6)
212207	English Communicative Speaking	229341	Tax Accounting	3(3-0-6)
	3(2-2-5)	229351	Auditing	3(3-0-6)
212208	English Writing Skills		Major Elective Courses	21 credits
	3(3-0-6)	227421	Principles of Investment	3(3-0-6)
	Information Technology	229222	Governmental Accounting	3(3-0-6)
	Group	229271	Accounting for Financial Institution	3(3-0-6)
310101	Computer and the Internet		3(3-0-6)	
	3(2-2-5)	229361	Software package for Accounting	3(3-0-6)
	Elective Courses	229421	Accounting Theory	3(3-0-6)
	4 credits	229422	Corporate Financial Reporting	3(3-0-6)
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.				
2. Area of Concentration Courses	57 credits	229423	Accounting Policy	3(3-0-6)
Basic Professional Courses	30 credits	229424	Seminar in Financial Accounting	3(3-0-6)
227211	Business Finance		3(3-0-6)	
228212	Marketing management	229431	Profit Planning and Control	3(3-0-6)
229212	Financial Accounting	229432	Seminar in Managerial Accounting	3(3-0-6)
230211	Business Law		3(3-0-6)	
230212	Business Economics	229451	Internal Auditing and Control	3(3-0-6)
230221	Principles of Management		3(3-0-6)	
230231	Taxation	229452	Information System Control	3(3-0-6)
230322	Production and Operations		and Audit	3(3-0-6)
	Management	229453	Seminar in Auditing	3(3-0-6)
230323	Management Information System	229461	Accounting Information System	3(3-0-6)
	3(3-0-6)		3(3-0-6)	
230421	Strategic Management	229462	Seminar in Accounting	3(3-0-6)
	3(3-0-6)		Information System	3(3-0-6)
	Major Required Courses	229471	Institutional Accounting	3(3-0-6)
229221	Intermediate Accounting I		3(3-0-6)	
229321	Intermediate Accounting II		3(3-0-6)	
229322	Advanced Accounting		3(3-0-6)	

3. Free Elective Courses **6 credits**

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

**Bachelor of Business Administration
Program in Human Resource
Management (Continuing Program)**

Courses Structure

Students are required to take a minimum of 76 credits from the following sections:

- 1. General Education Courses 13 credits
 - English Group 6 credits
 - Information Technology Group 3 credits
 - Elective Courses 4 credits
- 2. Area of Concentration Courses 57 credits
 - Basic Professional course 33 credits
 - Major Required Courses 18 credits
 - Major Elective Courses 6 credits
- 3. Free Elective Courses 6 credits

1. General Education Courses **13 credits**

- English Group** **6 credits**
- 212207 English Communicative Speaking 3(2-2-5)
- 212208 English Writing Skills 3(3-0-6)
- Information Technology Group** **3 credits**
- 310101 Computer and the Internet 3(2-2-5)
- Elective Courses** **4 credits**

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses **57 credits**

- Basic Professional Courses** **33 credits**
- 227211 Business Finance 3(3-0-6)
- 228212 Marketing Management 3(3-0-6)
- 229212 Financial Accounting 3(2-2-5)
- 229231 Accounting for Decision Making 3(3-0-6)
- 230211 Business Law 3(3-0-6)
- 230212 Business Economics 3(3-0-6)
- 230231 Taxation 3(3-0-6)
- 230322 Production and Operations Management 3(3-0-6)
- 230323 Management Information System 3(3-0-6)
- 230421 Strategic Management 3(3-0-6)

	Major Required Courses	18 credits
244211	Human Resource Management	3(3-0-6)
244212	Organization Behavior	3(3-0-6)
244261	Labour Law	3(3-0-6)
244321	Recruitment and Placement	3(3-0-6)
224331	Training and Development	3(3-0-6)
244441	Compensation Management	3(3-0-6)
	Major Required Courses	6 credits
212371	Business English	2(2-0-4)
214361	Communication in Organization	2(2-0-4)
216322	Persuasive Communication	2(2-0-4)
216441	Presentation Techniques	3(3-0-6)
216464	Interviewing Techniques	2(2-0-4)
216465	Conference procedure	2(2-0-4)
222251	Introduction to Industrial and Organizational Psychology	3(3-0-6)
230324	Small and Medium Enterprise	3(3-0-6)
230325	Entrepreneurship	3(3-0-6)
230411	Business Research Methodology	3(3-0-6)
244262	Principles of Industrial Relations	3(3-0-6)
244332	Organization Development	3(3-0-6)
244361	Labour Relation	3(3-0-6)
244371	Public Relation in Organization	3(3-0-6)
244471	Human Resource Information System	3(3-0-6)

244472	Leadership	3(3-0-6)
244473	Seminar in Human Resource Management	3(3-0-6)
244474	Independent Study	3(3-0-6)
244475	Cooperation Education	9(0-0-27)
3.	Free Elective Courses	6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Bachelor of Business Administration Program in Marketing (Continuing Program)

Courses Structure

Students are required to take a minimum of 76 credits from the following sections:

1. General Education Courses
 - 13 credits
 - English Group 6 credits
 - Information Technology
Group 3 credits
 - Elective Courses 4 credits
2. Area of Concentration Courses
 - 57 credits
 - Basic Professional course
 33 credits
 - Major Required Courses
 18 credits

- Major Elective Courses		230323 Management Information System	3(3-0-6)
	6 credits		
3. Free Elective Courses	6 credits	230421 Strategic Management	3(3-0-6)
1. General Education Courses	13 credits	Major Required Courses	18 credits
English Group	6 credits	228221 Consumer Behavior	3(3-0-6)
212207 English Communicative Speaking		228331 Product and Price Policies	3(3-0-6)
	3(2-2-5)	228351 Advertising and Sales Promotion	
212208 English Writing Skills	3(3-0-6)		3(3-0-6)
Information Technology		228352 Sales Management	3(3-0-6)
Group	3 credits	228471 Marketing Research	3(3-0-6)
310101 Computer and the Internet	3(2-2-5)	228481 Seminar in Marketing	3(3-0-6)
Elective Courses	4 credits	Major Elective Courses	18 credits
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.		228231 Service Marketing	3(3-0-6)
2. Area of Concentration Courses	57 credits	228341 Wholesaling Management	3(3-0-6)
Basic Professional Courses	33 credits	228343 purchasing Management	3(3-0-6)
227211 Business Finance	3(3-0-6)	228361 International Marketing	3(3-0-6)
228212 Marketing Management	3(3-0-6)	228371 Quantitative Analysis for Marketing	3(3-0-6)
229212 Financial Accounting	3(2-2-5)		
229231 Accounting for Decision Making		228423 Packaging Management	3(3-0-6)
	3(3-0-6)	228431 Industrial Marketing	3(3-0-6)
230211 Business Law	3(3-0-6)	228432 Agricultural Marketing	3(3-0-6)
230212 Business Economics	3(3-0-6)	228441 Marketing Channels and Physical Distribution Management	3(3-0-6)
230221 Principles of Management	3(3-0-6)	228442 Electronic Marketing	3(3-0-6)
230231 Taxation	3(3-0-6)	228461 Import and Export Management	3(3-0-6)
230322 Production and Operations Management	3(3-0-6)		
		230324 Small and Medium Enterprise Management	3(3-0-6)
		230422 Project Management	3(3-0-6)
		244211 Human Resource Management	3(3-0-6)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

**Bachelor of Science Program in Maps
and Geographical Technology
(Continuing Program)**

Courses Structure

Students are required to take a minimum of 78 credits from the following sections:

- 1. General Education Courses 15 credits
 - English Group 6 credits
 - Information Technology Group 3 credits
 - Elective Courses 6 credits
- 1. Area of Concentration Courses 57 credits
 - Basic Professional course 21 credits
 - Major Required Courses 24 credits
 - Major Elective Courses 12 credits
- 3. Free Elective Courses 6 credits

1. General Education Courses 15 credits

- English Group 6 credits**
- 212205 English for Science and Technology I 3(2-2-5)
- 212207 English Communicative Speaking 3(2-2-5)

Information Technology Group 3 credits

- 310101 Computer and the Internet 3(2-2-5)

Elective Courses 6 credits

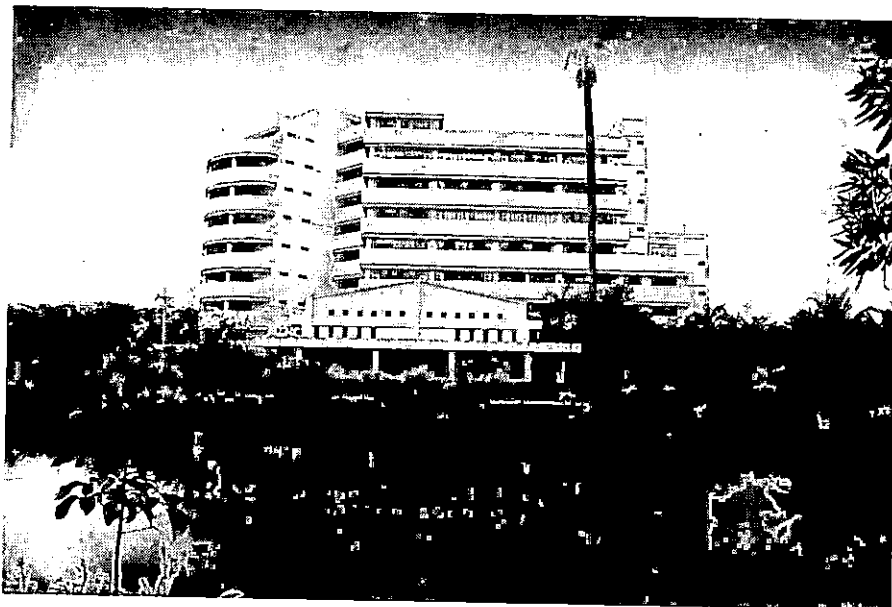
A minimum requirement for elective courses is 6 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

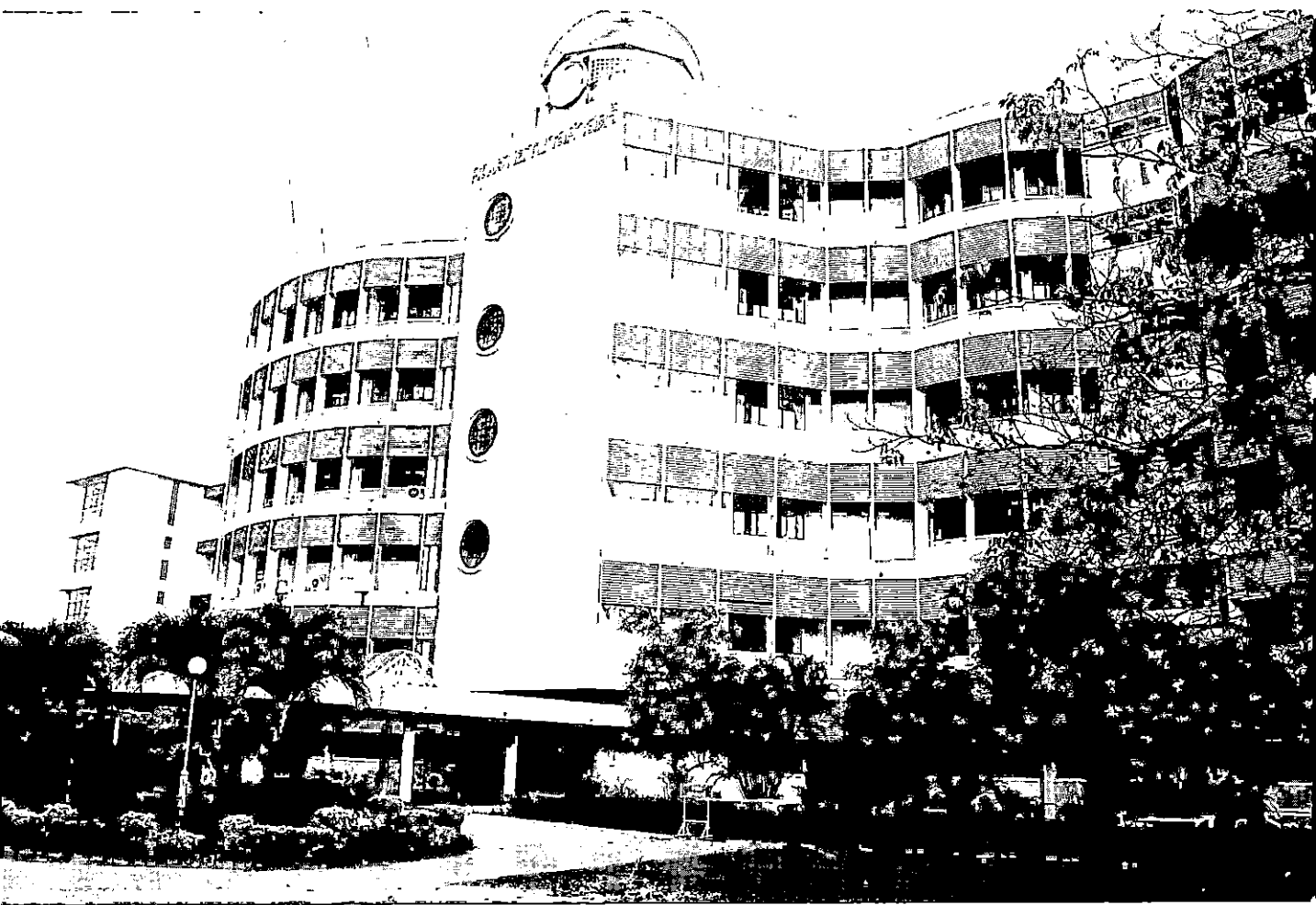
2. Area of Concentration Courses 57 credits

Basic Professional Courses 21 credits

- 223211 Map Reading and Aerial Photo Interpretation 3(2-2-5)
- 223212 Introduction to Remote Sensing and Geographic Information System 3(2-2-5)
- 223251 Physical Geography I 3(2-2-5)
- 223252 Physical Geography II 3(2-2-5)
- 223306 Research Methodology in Geography 3(2-2-5)
- 310322 C Programming 3(2-2-5)
- 310371 Internet Technologies 3(3-0-6)
- Major Required Courses 21 credits**
- 223215 Remote Sensing 3(2-2-5)
- 223216 Geographic Information System 3(2-2-5)

223317	Topographic Survey	3(2-2-5)	223321	Three Dimensions Mapping	3(2-2-5)
223318	Plane Survey	3(2-2-5)	223422	Computer Mapping	3(2-2-5)
223319	Cartography	3(2-2-5)	223424	Land Use Mapping Techniques	
223320	Global Positioning System	3(2-2-5)			3(2-2-5)
223427	Geography Database Management System	3(2-2-5)	223444	Geography of Tourism	3(3-0-6)
223428	Seminar in Geo-Informatics System	3(2-2-5)	223492	Problems in Geography of Thailand	3(3-0-6)
	Major Elective Courses	21 credits	3. Free Elective Courses		6 credits
223213	Statistical Techniques in Geography	3(3-0-6)		Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.	
223214	Photogrammetry	3(2-2-5)			
223254	Geomorphology	3(2-2-5)			
223294	Geography of Eastern Thailand	3(3-0-6)			





Faculty of Nursing

Faculty of Nursing

Background

Burapha University (formerly Srinakharinwirot University) recognized the importance of "Health for All by the Year 2000" and also a lack of nurses in Thailand. Therefore, the University established the Faculty of Nursing on June 8, 1982 and began teaching nursing students at the undergraduate level in 1983. Since then, the Faculty of Nursing of Burapha University has graduated more than 2,000 nurses to serve Thai society in both the government and private sectors.

Departments

The Faculty of Nursing is composed of 6 departments. They are:

1. Department of Basic Science in Nursing
2. Department of Community Nursing
3. Department of Maternal and Child Health Nursing
4. Department of Medical and Surgical Nursing
5. Department of Mental Health and Psychiatric Nursing
6. Department of Research, Evaluation, and Nursing Administration

Degrees Offered

Bachelor of Nursing Science (B.N.S.)

Bachelor of Nursing Science Program

Courses Structure

Students are required to take a minimum of 138 credits from the following sections:

1. General Education Courses
30 credits
Required Courses 26 credits
- English Group 12 credits
- Thai Group 2 credits
- Information Technology Group 3 credits
- Interdisciplinary Integration Group 9 credits
Elective Courses 4 credits
2. Area of Concentration Courses
102 credits
- Basic Professional Courses 28 credits
- Professional Courses 74 credits
3. Free Elective Courses 6 credits

1. General Education Courses 30 credits**Required Courses 26 credits****English Group 12 credits****Basic English 6 credits**

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212304 English IV 3(3-0-6)

Professional English 6 credits

212203 English for Health Sciences I 3(2-2-5)

212204 English for Health Sciences II 3(2-2-5)

Thai Group 2 credits

208101 Thai Language Skills 2 (2-0-4)

Information Technology Group**3 credits**

310101 Computer and the Internet 3 (2-2-5)

Interdisciplinary Integration Group**9 credits**999101 Interdisciplinary Integration I
3 (3-0-6)999102 Interdisciplinary Integration II
3 (3-0-6)999103 Interdisciplinary Integration III
3 (3-0-6)**Elective Courses 4 credits**

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 102 credits**Basic Professional Courses 28 credits**

101101 Basic Concepts in Nursing 3(3-0-6)

104302 Nursing Inquiry and Informatics
3(2-3-4)104403 Nursing professional Development
3(3-0-6)104404 Introduction to Business Concepts
in Health Care Services 2(2-0-4)305101 Microbiology and Parasitology
3(2-3-4)

308105 Physics for Health Science 3(3-0-6)

316202 Biochemistry for Health
Science 2(2-0-4)

317103 Human Physiology 4(3-3-6)

317108 Human Anatomy 3(2-3-4)

317206 Principle of Pharmacology 2(2-0-4)

Required Professional Courses**74 credits**

103201 Health Care for Wellness I 3(3-0-6)

101202 Health Care for Wellness II 3(2-2-5)

102203 Practicum of Health Care
for Wellness 2(0-8-0)

101404 Health Care in Community I 2(2-0-4)

101405 Health Care in Community II 2(2-0-4)

101406 Practicum of Health Care
in Community I 2(0-8-0)101407 Practicum of Health Care
in Community II 2(0-8-0)102201 Health Care for Well Maternal-
Newborn and Family I 2(2-0-4)

102202	Health Care for Well Maternal- Newborn and Family II	2(2-0-4)	106404	Practicum of Palliative Health Care	2(0-8-0)
102203	Practicum of Health Care for Well Maternal-Newborn and Family	3(0-12-0)	104409	Practicum in Nursing Profession	2(0-8-0)
102304	Health Care for Maternal-Newborn at Risk and in Health Deviation	3(0-12-0)	Elective Courses for Nursing Students		
102305	Practicum of health Care for Maternal-Newborn at Risk in Health Deviation	2(0-8-0)	101408	Community Practice Experience	2(1-4-1)
104201	Nursing Practice Technology I	3(1-4-4)	101409	Independent Study Related to Community Nursing	2(0-0-6)
105211	Nursing Practice Technology II	4(2-4-6)	101410	Nursing and Community Health Promotion	2(2-0-4)
106201	Health Care for Acute Illness I	4(3-2-7)	101411	Occupational Health Nursing I	2(2-0-4)
103202	Health Care for Acute Illness II	5(4-2-9)	101412	Occupational Health Nursing II	2(2-0-4)
103303	Health Care for Critical Illness I	4(3-2-7)	102225	Family Education	2(2-0-4)
106302	Healthcare for Critical Illness II	4(3-2-7)	102318	Health Promotion and Development in Children	2(2-0-4)
103304	Practicum of Health Care for Critical Illness	3(0-12-0)	102419	Nursing Care for Critical Ill Children	2(0-8-0)
105312	Health Care for Chronic Illness	5(4-2-9)	102420	Childbirth Education	2(1-4-1)
105413	Practicum of Health Care for Chronic Illness	3(0-12-0)	102421	Independent Study Related to Maternal-Newborn Nursing	2(0-0-6)
106303	Palliative Health Care	4(3-2-7)	102422	Independent Study Related to Nursing for Children	2(0-0-6)
			103417	Nursing Care for the Surgical Patients	3(1-8-0)
			103418	Emergency Nursing	2(1-4-1)
			103419	Neoplastic and Oncologic Nursing	2(1-4-1)

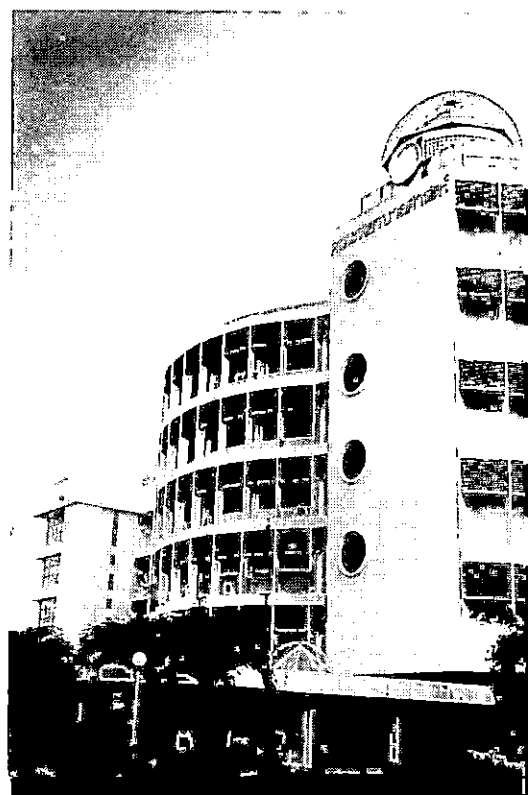
103420	Operating Room Nursing	3(1-8-0)	103220	Family Health Care	2(2-0-4)
104212	Computer for Nurse	2(1-2-3)	103221	Basic Nursing Care for AIDS Patients	2(2-0-4)
104313	Nursing Informatics	2(1-2-3)	103222	First Aid and Basic Life Support	2(1-2-3)
104414	Independent Study Related to Research in Nursing	2(0-0-6)	106221	Mental Health Promotion and Prevention Techniques	2(1-2-3)
104415	Independent Study Related to Nursing Administration	2(0-0-6)	106222	Thai Wisdom and Health Care	2(1-2-3)
104416	Independent Study Related to Evaluation in Nursing	2(0-0-6)	106223	The Sustainable Development for Health Care System	2(1-2-3)
104417	International Health	2(2-0-4)	106405	Buddhism and Mental Health Care	2(2-0-4)
104419	Health Program Evaluation	2(2-0-4)	106406	Reflective practice	2(1-2-3)
105205	Mental Health Promotion for the Elderly	2(1-2-3)			
105404	Independent Study Related to Gerontological Nursing	2(2-0-4)			
106224	The Relaxation and Stress Reduction	1(1-0-2)			
106419	Independent Study Related to Mental Health and Psychiatric Nursing	2(0-0-6)			
106420	Mental Health in Industry	2(0-0-6)			
106423	Patterns of Knowing in Nursing	2(2-0-4)			

Elective Courses for General Students

101222	AIDS Education	2(2-0-4)
101223	Primary Self Health Care	2(2-0-4)
102224	Holistic Health Care	2(2-0-4)
102225	Family Life Education	2(2-0-4)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.



Bachelor of Nursing Science Program

(Continuing Program)

Courses Structure

Students are required to take a minimum of 76 credits from the following sections:

1. General Education Courses	19 credits
Required Courses	17 credits
- English Group	6 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	6 credits
Elective Courses	2 credits
2. Area of Concentration Courses	51 credits
- Basic Professional Courses	13 credits
- Professional Courses	38 credits
3. Free Elective Courses	6 credits
1. General Education Courses	19 credits
Required Courses	17 credits
English Group	6 credits
212203 English for Health Sciences I	3(2-2-5)
212204 English for Health Sciences II	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2 (2-0-4)

Information Technology Group

3 credits

310101 Computer and the Internet 3 (2-2-5)

Interdisciplinary Integration Group

6 credits

999101 Interdisciplinary Integration I
3 (3-0-6)

999102 Interdisciplinary Integration II
3 (3-0-6)

999103 Interdisciplinary Integration III
3 (3-0-6)

Elective Courses

2 credits

A minimum requirement for elective courses is 2 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 50 credits

Basic Professional Courses 13 credits

101115 Basic Concepts in Nursing 2(2-0-4)

104308 Nursing Inquiry and Informatics
3(2-3-4)

104405 Laws and Nursing Professional
Development 2(2-0-4)

104409 Introduction for Business Concepts
in Health Care Services 2(2-0-4)

317206 Principle of Pharmacology 2(2-0-4)

317309 Human Physiology 2(2-0-4)

Professional Courses 74 credits

101404 Health Care in Community I 2(2-0-4)

101405	Health Care in Community II	2(2-0-4)
101406	Practicum of Health Care in Community I	2(0-8-0)
101407	Practicum of Health Care in Community II	2(0-8-0)
102304	Health Care for Maternal-Newborn at Risk and in Health Deviation	3(0-12-0)
102305	Practicum of health Care for Maternal-Newborn at Risk in Health Deviation	2(0-8-0)
103303	Health Care for Critical Illness I	4(3-2-7)
103304	Practicum of Health Care for Critical Illness	3(0-12-0)
105312	Health Care for Chronic Illness	5(4-2-9)
105413	Practicum of Health Care for Chronic Illness	3(0-12-0)
106303	Palliative Health Care	4(3-2-7)
106404	Practicum of Palliative Health Care	2(0-8-0)

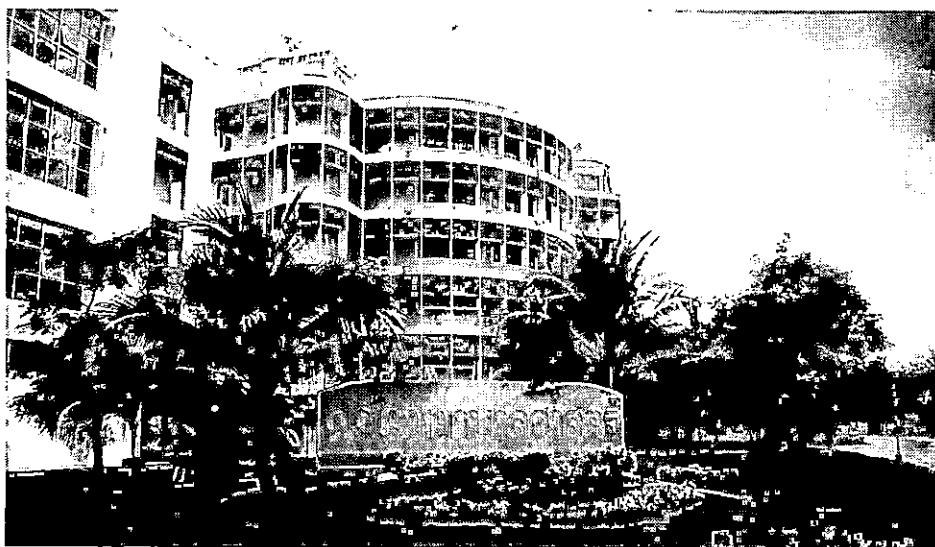
3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits to complete the graduation requirement from courses provided at Burapha University or other universities both in Thailand and abroad.

Elective Courses for Nursing Students

101408	Community Practice Experience	2(1-4-1)
101409	Independent Study Related to Community Nursing	2(0-0-6)
101410	Nursing and Community Health Promotion	2(2-0-4)
101411	Occupational Health Nursing I	2(2-0-4)
101412	Occupational Health Nursing II	2(2-0-4)
102225	Family Education	2(2-0-4)
102318	Health Promotion and Development in Children	2(2-0-4)
102419	Nursing Care for Critical Ill Children	2(0-8-0)
102420	Childbirth Education	2(1-4-1)
102421	Independent Study Related to Maternal-Newborn Nursing	2(0-0-6)
102422	Independent Study Related to Nursing for Children	2(0-0-6)
103416	Critical Care in Adult Nursing	2(0-8-0)
103417	Nursing Care for the Surgical Patients	3(1-8-0)
103418	Emergency Nursing	2(1-4-1)
103419	Neoplastic and Oncologic Nursing	2(1-4-1)
103420	Operating Room Nursing	3(1-8-0)

104212	Computer for Nurse	2(1-2-3)	106423	Patterns of Knowing in Nursing	
104313	Nursing Informatics	2(1-2-3)			2(2-0-4)
104414	Independent Study Related to Research in Nursing	2(0-0-6)		Elective Courses for General Students	
104415	Independent Study Related to Nursing Administration	2(0-0-6)	101222	AIDS Education	2(2-0-4)
104416	Independent Study Related to Evaluation in Nursing	2(0-0-6)	101223	Primary Self Health Care	2(2-0-4)
104417	International Health	2(2-0-4)	102224	Holistic Health Care	2(2-0-4)
104419	Health Program Evaluation	2(2-0-4)	103220	Family Health Care	2(2-0-4)
105205	Mental Health Promotion for the Elderly	2(1-2-3)	103221	Basic Nursing Care for AIDS Patients	2(2-0-4)
105404	Independent Study Related to Gerontological Nursing	2(2-0-4)	103222	First Aid and Basic Life Support	2(1-2-3)
106224	The Relaxation and Stress Reduction	1(1-0-2)	106221	Mental Health Promotion and Prevention Techniques	2(1-2-3)
106419	Independent Study Related to Mental Health and Psychiatric Nursing	2(0-0-6)	106222	Thai Wisdom and Health Care	
106420	Mental Health in Industry	2(0-0-6)	106223	The Sustainable Development for Health Care System	2(1-2-3)
			106405	Buddhism and Mental Health Care	2(2-0-4)
			106406	Reflective practice	2(1-2-3)



Faculty of Public Health



Faculty of Public Health

Background

The Faculty of Public Health was established in 1993 to produce public health graduates in three programs: Industrial Hygiene and Safety, Environmental Health, and Health Education and Health Behavior. In 1997 a continuing program in public health was initiated for human resource development for public health personnel.

Departments

The Faculty of Public Health is composed of 4 departments. They are:

1. Department of Industrial Hygiene and Safety
2. Department of Environmental Health
3. Department of Health Education
4. Department of Public Health Foundation

Degrees Offered

The Faculty of Public Health offers 3 Bachelor's level degrees:

1. Bachelor of Science (Industrial Hygiene and Safety)
2. Bachelor of Science (Environmental Health)
3. Bachelor of Science (Health Education)

Bachelor of Science Program in

Environmental Health

Courses Structure

Students are required to take a minimum of 131 credits from the following sections:

1. General Education Courses
30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
- Elective Courses 4 credits
2. Area Concentration Courses
95 credits
 - Basic Professional Courses 49 credits
 - Basic Sciences 27 credits
 - Basic Public Health 16 credits
 - Basic Other Public Health 6 credits
 - Professional Course 46 credits
 - Required Course 42 credits
 - Elective Course 4 credits
3. Free Elective Courses 6 credits

1. General Education Courses	30 credits	2. Professional Courses	95 credits
Required Course	26 credits	Basic Professional Course	49 credits
English Group	12 credits	Basic Sciences	27 credits
Basic English	6 credits	302113 Calculus I	3(3-0-6)
212101 English I	3(3-0-6)	303101 Chemistry I	3(3-0-6)
212102 English II	3(3-0-6)	303103 Chemistry Laboratory	1(0-3-0)
212103 English III	3(3-0-6)	303220 Organic Chemistry	3(3-0-6)
212104 English IV	3(3-0-6)	303221 Organic Chemistry Laboratory	1(0-3-0)
Professional English	6 credits	305201 Introductory Microbiology	4(3-3-6)
212203 English for Health Sciences I	3(2-2-5)	306101 General Biology I	3(3-0-6)
212204 English for Health Sciences II	3(2-2-5)	306102 General Biology Laboratory	1(0-3-0)
Thai Group	2 credits	308105 Physics for Health Science	3(3-0-6)
208101 Thai Language Skills	2(2-0-4)	308106 Physics Laboratory for Health Science	1(0-3-0)
Information Technology Group	3 credits	316202 Biochemistry for Health Science	2(2-0-4)
310101 Computer and the Internet	3(2-2-5)	703201 Parasitology	2(1-2-3)
Interdisciplinary Integration Group	9 credits	Basic Public Health	16 credits
999101 Interdisciplinary Integration I	3(3-0-6)	317101 Human Anatomy	2(2-0-4)
999102 Interdisciplinary Integration II	3(3-0-6)	317204 Human Physiology	3(2-3-4)
999103 Interdisciplinary Integration III	3(3-0-6)	701101 Health and Development	2(1-3-2)
Elective Courses	4 credits	701303 Introduction to Research Methods in Health Sciences	2(2-0-4)
A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.		701304 Integrated Public Health Field Practice.	1(0-4-0)
		702302 Public Health Administration	2(2-0-4)
		703302 Principles of Epidemiology and Diseases Control	2(2-0-4)
		705201 Statistics and Population	2(1-3-2)

Basic Other Public Health 6 credits

711201 Introduction to Occupational Health
2(2-0-4)

720201 Introduction to Environment Health
2(2-0-4)

730304 Health Education and Behavioral
Science 2(2-0-4)

Professional Courses 46 credits

720305 Environmental Pollution Control
2(2-0-4)

720412 Chemistry of Water and Wastewater
Analysis 3(1-8-0)

720413 Field Observation in
Environmental Health 1(0-4-0)

720414 Special Study in Environmental
Health 2(0-6-0)

720417 Measures for Environmental
Management 2(2-0-4)

720418 Seminar in Environmental Health
1(0-2-1)

720419 Practicum in Environmental Health
3(0-12-0)

721302 House and Public Building
Sanitation Development 2(2-0-4)

721303 Food Sanitation 3(2-3-4)

721304 Water Supply and Sanitation 3(2-3-4)

721305 Solid Waste and Excreta
Management 3(2-3-4)

721306 Radiological Health 2(2-0-4)

721307 Hazardous Waste Management
2(2-0-4)

721408 Insects Vectors and Rodent
Control 2(2-0-4)

721409 Air Pollution Control 3(3-0-6)

721410 Industrial Sanitation 2(2-0-4)

721411 Wastewater Management 3(3-0-6)

722409 Environment Impact Assessment
3(3-0-6)

Elective Course 4 credits

720306 Food Safety and Consumer
Protection 2(2-0-4)

720307 Soil Pollution Management 2(2-0-4)

720308 Introduction to Environmental
Engineering and Sanitation
Engineering Design 2(2-0-4)

720309 Microorganisms and Pollution
2(2-0-4)

720415 Environmental Toxicology in
Relation to Health 2(2-0-4)

720416 Air Toxics and Health Effects
2(2-0-4)

722304 Rural Environmental Planning
and Management 2(2-0-4)

722407 Urban Environmental Planning
and Management 2(2-0-4)

722408 Industrial Environmental Planning
and Management 2(2-0-4)

3. Free Elective Course 6 credits

Students may take at least 6 credits as
free elective credits from courses provided at
Burapha University or other universities both

Thailand and abroad to complete the graduation requirement.

**Bachelor of Science Program in
Health Education and Health Behavior
Courses Structure**

Students are required to take a minimum of 129 credits from the following sections:

- 1. General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits
- 2. Area Concentration Courses 93 credits
 - Basic Professional Courses 43 credits
 - Basic Sciences 21 credits
 - Basic Public Health 18 credits
 - Basic Other Public Health 4 credits
 - Professional Course 50 credits
- 3. Free Elective Courses 6 credits

1. General Education Courses	30 credits
Required Course	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212203 English for Health Sciences I	3(2-2-5)
212204 English for Health Sciences II	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Professional Courses	93 credits	Professional Course	50 credits
Basic Professional Course	43 credits	730101 Introduction to Health Education	
Basic Sciences	21 credits	Profession	2(2-0-4)
302113 Calculus I	3(3-0-6)	730303 Health Education and Behavioral	
303101 Chemistry I	3(3-0-6)	Science	3(3-0-6)
306101 General Biology I	3(3-0-6)	730205 Health Education and Health	
306102 General Biology Laboratory	1(0-3-0)	Behavior of Special Children	2(2-0-4)
306103 General Biology II	3(3-0-6)	730306 Health Education and Health	
308105 Physics for Health Science	3(3-0-6)	Behavior in the Workplace	2(2-0-4)
316202 Biochemistry for Health Science	2(2-0-4)	730408 Research in Health Education and	
		Behavioral Science	2(1-2-3)
703303 Microbiology and Parasitology		730409 Independent Study in Health	
in Public Health	3(2-2-5)	Education and Behavioral Science	2(0-6-0)
Basic Public Health	18 credits		
317101 Human Anatomy	2(2-0-4)	731201 Health and Wellness	2(2-0-4)
317204 Human Physiology	3(2-3-4)	731202 Life and Safe Living	2(2-0-4)
701101 Health and Development	2(1-3-2)	731203 Current Major Health Problems	
701303 Introduction to Research Methods		in Thai Society	2(2-0-4)
in Health Sciences	2(2-0-4)	731204 Sex Education	2(2-0-4)
701304 Integrated Public Health Field		731205 Consumer Health	2(2-0-4)
Practice	1(0-4-0)	731306 Health and Family Relationship	2(2-0-4)
702302 Public Health Administration	2(2-0-4)		
		731312 AIDS and Health	2(2-0-4)
703302 Principles of Epidemiology		731407 Emergency Public Health Services	3(2-2-5)
and Diseases Control	2(2-0-4)		
704201 Nutrition and Drugs	2(2-0-4)	731408 Health Psychology	2(2-0-4)
705201 Statistics and Population	2(1-3-2)	731411 Practicum in Health Education and	
Basic Other Public Health	4 credits	Health Behavior	6(0-24-0)
711201 Introduction to Occupational		732301 Teaching Techniques in Health	
Health	2(2-0-4)	Education and Health Behavior	2(2-0-4)
720201 Introduction to Environment			
Health	2(2-0-4)		

732302	Public Health Media Production and Development	3(2-2-5)
732303	Health Education and Health Behavior Program Planning and Evaluation	2(2-0-4)
732304	Inservice Training for Health Sciences	2(1-3-2)
732405	Communication and Public Relation in Public Health	2(2-0-4)
732406	Seminar in Health Education and Behavioral Science	1(0-3-0)
3. Free Elective Course		6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both Thailand and abroad to complete the graduation requirement.

Bachelor of Science Program in Industrial Hygiene and Safety Program

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses	94 credits
- Basic Professional Courses	50 credits
- Basic Sciences	26 credits
- Basic Public Health	18 credits
- Basic Other Public Health	6 credits
- Professional Course	44 credits
- Required Course	38 credits
- Elective Course	6 credits
3. Free Elective Courses	6 credits

1. General Education Courses 30 credits**Required Course 26 credits****English Group 12 credits****Basic English 6 credits**

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits212203 English for Health Sciences I
3(2-2-5)212204 English for Health Sciences II
3(2-2-5)**Thai Group 2 credits**

208101 Thai Language Skills 2(2-0-4)

**Information Technology Group
3 credits**

310101 Computer and the Internet 3(2-2-5)

**Interdisciplinary Integration Group
9 credits**999101 Interdisciplinary Integration I
3(3-0-6)999102 Interdisciplinary Integration II
3(3-0-6)999103 Interdisciplinary Integration III
3(3-0-6)**Elective Courses 4 credits**

A minimum requirement for elective courses is 4 credits. Students can select from General Education Courses which are offered in other faculties from the General Education Courses Manual (2002), Burapha University.

2. Area of Concentration Courses 94 credits**Basic Professional Course 50 credits****Basic Sciences 26 credits**

302113 Calculus I 3(3-0-6)

303101 Chemistry I 3(3-0-6)

303103 Chemistry Laboratory 1(0-3-0)

303220 Organic Chemistry 3(3-0-6)

303221 Organic Chemistry Laboratory

1(0-3-0)

306101 General Biology 3(3-0-6)

308101 Introductory Physics I 3(3-0-6)

308103 Introductory Physics Laboratory I
1(0-3-0)

308102 Introductory Physics II 3(3-0-6)

316202 Biochemistry for Health Science
2(2-0-4)703303 Microbiology and Parasitology
in Public Health 3(2-2-5)**Basic Public Health 18 credits**

317101 Human Anatomy 2(2-0-4)

317204 Human Physiology 3(2-3-4)

701101 Health and Development 2(1-3-2)

701303 Introduction to Research Methods
in Health Sciences 2(2-0-4)701304 Integrated Public Health Field
Practice 1(0-4-0)

702302 Public Health Administration 2(2-0-4)

703302 Principles of Epidemiology
and Disease Control 2(2-0-4)

704201 Nutrition and Drugs 2(2-0-4)

705201 Statistics and Population 2(1-3-2)

Basic Other Public Health 6 credits

711201 Introduction to Occupational Health 2(2-0-4)

720201 Introduction to Environmental Health 2(2-0-4)

730304 Health Education and Behavioral Science 2(2-0-4)

Professional Course 44 credits

Major Required Courses 38 credits.

710302 Principles of Industrial Hygiene 3(3-0-6)

710303 Industrial Toxicology 3(3-0-6)

710304 Industrial Hygiene Sampling and Analysis I 3(1-6-2)

710307 Seminar in Industrial Hygiene and Safety 1(0-2-1)

710405 Industrial Hygiene Sampling and Analysis II 2(1-4-1)

710406 Industrial Hygiene Control Technique 2(2-0-4)

710409 Industrial Hygiene and Safety Professional Internship 2(0-8-0)

711303 Work Physiology 2(2-0-4)

711304 Occupational Medicine 2(2-0-4)

711305 Occupational Health and Safety Law 2(2-0-4)

711406 Ergonomics 3(3-0-6)

711407 Occupational Health and Safety Management 2(2-0-4)

711413 Independent Study in Occupational Health 1(0-2-1)

712303 Principles of Industrial Engineering 2(2-0-4)

712305 Industrial Safety 2(2-0-4)

712306 Industrial Ventilation 2(2-0-4)

712407 Safety Engineering 2(2-0-4)

712409 Risk Assessment Elective Course 6 credits

710408 Indoor Air Quality 2(2-0-4)

711408 Quality System 2(2-0-4)

711409 Total Quality Management 2(2-0-4)

711410 Health Service and Welfare Facilities in Enterprises 2(2-0-4)

711411 Industrial Psychology 2(2-0-4)

711412 Improvement of Industrial Working Conditions 2(2-0-4)

712201 Introduction to Accident Management 2(2-0-4)

712408 Fire Prevention and Control 2(2-0-4)

3. Free Elective Course 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

**Bachelor of Science Program
in Public Health Program
(Continuing Program)**

Courses Structure

Students are required to take a minimum of 74 credits from the following sections:

- | | |
|--|-------------------|
| 1. General Education Courses | 16 credits |
| - English Group | 5 credits |
| - Humanities Group | 2 credits |
| - Interdisciplinary Group | 9 credits |
| 2. Area Concentration Courses | 52 credits |
| - Basic Professional Courses | 29 credits |
| - Professional Course | 23 credits |
| - Required Course | 20 credits |
| - Elective Course | 3 credits |
| 3. Free Elective Courses | 6 credits |
| 1. General Education Courses | 16 credits |
| English Group | 5 credits |
| 212203 English for Health Sciences I | 3(2-2-5) |
| 212231 Oral English Practice | 2(1-2-3) |
| Humanity Group | 2 credits |
| 216101 Speech for Effective Communication | 2(2-0-4) |
| Interdisciplinary Integration Group | 9 credits |
| 999101 Interdisciplinary Integration I | 3(3-0-6) |
| 999102 Interdisciplinary Integration II | 3(3-0-6) |
| 999103 Interdisciplinary Integration III | 3(3-0-6) |

- | | |
|---|-------------------|
| 2. Professional Courses | 52 credits |
| Basic Professional Course | 29 credits |
| 701307 Philosophy of Public Health | 2(2-0-4) |
| 701414 Community Diagnosis | 2(1-2-3) |
| 703308 Parasitology in Public Health | 2(2-0-4) |
| 703413 Principle of Epidemiology | 2(2-0-4) |
| 703414 Disease Control | 2(2-0-4) |
| 704302 Community Nutrition | 2(2-0-4) |
| 705302 Demography | 2(2-0-4) |
| 705403 Public Health Statistics | 2(1-2-3) |
| 711302 Occupational Health | 3(3-0-6) |
| 712304 Safety at Work | 2(2-0-4) |
| 720304 Environmental Health | 3(3-0-6) |
| 730302 Introduction to Health Behavior | 2(2-0-4) |
| 732302 Public Health Media Production and Development | 3(2-2-5) |
| Professional Course | 23 credits |
| Require Course | 20 credits |
| 701415 Special Study in Public Health | 2(0-6-0) |
| 701416 Seminar in Public Health | 2(1-2-3) |
| 702407 Health Economics | 2(2-0-4) |
| 702408 Principle of Public Health Administration | 2(2-0-4) |
| 702409 Public Health Law | 1(1-0-2) |
| 702410 Public Health Administration Research | 3(2-2-5) |
| 702411 Human Resource Administration | 2(2-0-4) |

702412	Organization Behavior	2(2-0-4)	703312	Emerging and Reemerging Diseases	3(3-0-6)
702413	Supervision and Evaluation	2(1-2-3)	710303	Industrial Toxicology	3(3-0-6)
711407	Occupational Health and Safety Management	2(2-0-4)	712202	Disaster Management	3(3-0-6)
Elective Course		3 credits	720303	Environmental Chemistry and Daily life	3(3-0-6)
701308	Social Sciences and Anthropology of Health	3(3-0-6)	721409	Air Pollution Control	3(3-0-6)
701309	Alternative Health in Public Health System	3(3-0-6)	721412	Solid and Hazardous Waste Management	3(3-0-6)
701310	Reproductive Health and Population Planning	3(3-0-6)	722303	Environmental Health Management for Tourism	3(3-0-6)
701311	Professional Experiences for Health Personnel	3(3-0-6)	722409	Environmental Impact Assessment	3(3-0-6)
701312	Health Future Research	3(3-0-6)	730307	Cross Cultural Health	3(2-3-4)
701313	International Public Health	3(2-3-4)	731409	Health Promotion in the Workplace	3(3-0-6)
702303	Health Economics Research	3(3-0-6)	731410	Behavioral Problem of Drug Utilization and Medication for Health	3(3-0-6)
702304	Health Financing	3(3-0-6)			
702305	Strategic Health Management	3(3-0-6)	3. Free Elective Course		6 credits
702306	Health Participatory Facilitator Technique	3(3-0-6)		Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both Thailand and abroad to complete the graduation requirement.	
703309	Basic Epidemiology in Environmental Work	3(3-0-6)			
703311	Epidemiology of Health Economics	3(3-0-6)			



9. Bachelor of Science (B.Sc., Material Science and Gemological Technology)
10. Bachelor of Science (B.Sc., Mathematics)
11. Bachelor of Science (B.Sc., Medical Science)
12. Bachelor of Science (B.Sc., Microbiology)
13. Bachelor of Science (B.Sc., Physics)
14. Bachelor of Science (B.Sc., Statistics)

Bachelor of Science Program in Aquatic Science

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits

2. Area of Concentration Courses 99 credits
 - Core Courses 29 credits
 - Professional Courses 28 credits
 - Major Courses 42 credits
3. Free Elective Courses 6 credits

1. General Education Courses 30 credits

Required Courses 26 credits

English Group 12 credits

Basic English 6 credits

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104 English IV 3(3-0-6)

Professional English 6 credits

212205 English for Science and Technology I 3(2-2-5)

212206 English for Science and Technology II 3(2-2-5)

Thai Group 2 credits

208101 Thai Language Skills 2(2-0-4)

Information Technology Group 3 credits

310101 Computer and the Internet 3(2-2-5)

Interdisciplinary Integration Group 9 credits

999101 Interdisciplinary Integration I 3(3-0-6)

999102 Interdisciplinary Integration II 3(3-0-6)

999103 Interdisciplinary Integration III 3(3-0-6)

Elective Courses	4 credits	303250 Analytical Chemistry	3(3-0-6)
203103 Contemporary World Affairs	2(2-0-4)	303251 Analytical Chemistry Laboratory	1(0-3-0)
216101 Speech for Effective Communication	2(2-0-4)	305201 Introductory Microbiology	4(3-3-6)
222102 Personality and Self Development	2(2-0-4)	306211 Ecology	3(2-3-4)
226101 General Economics	2(2-0-4)	306321 Genetics	3(2-3-4)
230101 General Knowledge on Business	2(2-0-4)	306331 Animal Physiology	3(2-3-4)
501102 Safety in Everyday Life	2(2-0-4)	312202 Biostatistics	3(3-0-6)
2. Area of Concentration Courses 98 credits		316201 General Biochemistry	3(3-0-6)
Core Courses	9 credits	316221 General Biochemistry Laboratory	1(0-3-0)
301301 Quality Management	2(2-0-4)	Major Courses	42 credits
302111 Calculus I	3(3-0-6)	Major Required Courses	31 credits
302112 Calculus II	3(3-0-6)	309201 Marine Biology	3(2-3-4)
303101 Chemistry I	3(3-0-6)	309241 Introduction to Oceanography	3(3-0-6)
303102 Chemistry II	3(3-0-6)	309251 Introduction to Fisheries	3(3-0-6)
303103 Chemistry Laboratory	1(0-3-0)	Technology	3(3-0-6)
306101 General Biology I	3(3-0-6)	309321 Aquatic Invertebrates	4(3-3-6)
306102 General Biology Laboratory I	1(0-3-0)	309323 Ichthyology	3(2-3-4)
308101 Introductory Physics I	3(3-0-6)	309342 Limnology	3(3-0-6)
308102 Introductory Physics II	3(3-0-6)	309361 Marine Ecology	3(2-3-4)
308103 Introductory Physics Laboratory I	1(0-3-0)	309371 Aquaculture	3(3-0-6)
312201 Elementary Statistics	3(3-0-6)	309431 Water Quality Analysis	3(2-3-4)
Professional Courses	28 credits	309491 Seminar in Aquatic Science	1(1-0-2)
303220 Organic Chemistry	3(3-0-6)	309492 Special Problems in	Aquatic Science 2(0-6-0)
303221 Organic Chemistry Laboratory	1(0-3-0)	Major Elective Courses	11 credits
		Fishing and Aquaculture	
		309325 Diseases and Pathology of	
		Aquatic Animal	3(2-3-4)

309352 Fisheries Gears	2(1-3-2)	309494 Selected Topics in Aquatic	
309353 Fisheries Products Technology	3(2-3-4)	Science II	3(3-0-6)
309372 Food of Aquatic Animal	3(2-3-4)	Biology and Ecology	
309373 Coastal Aquaculture	3(3-0-6)	309302 Planktonology	3(2-3-4)
309374 Laboratory in Coastal Aquaculture	2(0-6-0)	309303 Marine Microbiology	3(2-3-4)
309375 Aquatic Animal Breeding	3(3-0-6)	309311 Aquatic Plants	3(2-3-4)
309376 Laboratory in Aquatic Animal		309312 Phycology	3(2-3-4)
Breeding	2(0-6-0)	309401 Taxidermy	2(1-3-2)
309377 Ornamental Fish and Aquarium		309402 Marine Biotoxins	3(3-0-6)
Plants	3(2-3-4)	309421 Carcinology	3(2-3-4)
309378 Aquatic Animal Farm		309422 Malacology	3(2-3-4)
Management	2(2-0-4)	309423 Physiology of Aquatic Animals	3(2-3-4)
309379 Aquaculture Business	3(3-0-6)	309424 Aquatic Vertebrates	3(2-3-4)
309434 Natural Products from Aquaculture	3(3-0-6)	309425 Embryology of Aquatic Animals	3(2-3-4)
309471 Aquatic Animal Nutrition	3(3-0-6)	309426 Fish and Crustacean Endocrinology	3(3-0-6)
309472 Aquaculture Genetics	3(3-0-6)	309464 Mangrove Ecology	3(3-0-6)
309473 Algae and Aquatic Plant		309465 Coral Reef Ecology	3(3-0-6)
Aquaculture	3(2-3-4)	309466 Benthic Ecology	3(3-0-6)
309474 Mollusk Aquaculture	3(2-3-4)	309467 Fish Ecology	3(3-0-6)
309475 Crustacean Aquaculture	3(2-3-4)	309468 Aquatic Microbial Ecology	3(2-3-4)
309476 Pisciculture	3(2-3-4)	309469 Aquatic Invertebrate	
309477 Aquaculture Engineering	3(3-0-6)	Ecophysiology	3(2-3-4)
309478 Aquaculture Biotechnology	3(3-0-6)	309493 Selected Topics in Aquatic	
309479 Gamete and Embryo Cryopreservation		Science I	3(3-0-6)
of Aquatic Animals	3(2-3-4)	309494 Selected Topics in Aquatic	
309493 Selected Topics in Aquatic		Science II	3(3-0-6)
Science I	3(3-0-6)		

Oceanography and Environmental	
309343	Introduction to Chemical Oceanography 3(3-0-6)
309344	Introduction to Physical Oceanography 3(3-0-6)
309345	Introduction to Geological Oceanography 3(3-0-6)
309346	Aquatic Toxic Assessment 3(3-0-6)
309368	Geographic Information Systems for Aquatic Resources 3(2-3-4)
309369	Remote Sensing for Aquatic Resources Management 3(2-3-4)
309432	Chemistry and Treatment of Wastewater 3(2-3-4)
309433	Introduction to Aquatic Geochemistry 3(3-0-6)
309435	Introduction to Aquatic Biochemistry 3(3-0-6)
309436	Introduction to Aquatic Biogeochemistry 3(3-0-6)
309437	Marine Environmental Analysis Techniques 3(3-0-6)
309438	Environmental Toxicology 3(3-0-6)
309441	Marine Natural Resources 2(2-0-4)
309442	Oceanography Data Analysis 3(2-3-4)
309443	Aquatic Pollution 3(3-0-6)
309461	Aquatic Resources Management 3(3-0-6)
309462	Integrated Coastal Zone Management 3(3-0-6)

309463	Coastal Environment and Impact Assessment 3(3-0-6)
309464	Aquatic Resources Conservation 3(3-0-6)
309481	Introduction to Navigation 3(2-3-4)
309482	Laws of the Sea 2(2-0-4)
309483	Scuba Diving 2(1-3-2)
309493	Selected Topics in Aquatic Science I 3(3-0-6)
309494	Selected Topics in Aquatic Science II 3(3-0-6)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Science Program in Biochemistry

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

	3(2-3-4)
1. General Education Courses	
	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits

- Interdisciplinary Integration Group	9 credits	999102 Interdisciplinary Integration II	3(3-0-6)
Elective Courses	4 credits	999103 Interdisciplinary Integration III	3(3-0-6)
2. Area of Concentration Courses	94 credits	Elective Courses	4 credits
- Core Courses	29 credits	203103 Contemporary World Affairs	
- Professional Courses	26 credits		2(2-0-4)
- Major Courses	39 credits	216101 Speech for Effective Communication	2(2-0-4)
3. Free Elective Courses	6 credits	222102 Personality and Self Development	2(2-0-4)
1. General Education Courses	30 credits	226101 General Economics	2(2-0-4)
Required Courses	26 credits	230101 General Knowledge on Business	
English Group	12 credits		2(2-0-4)
Basic English	6 credits	501102 Safety in Everyday Life	2(2-0-4)
212101 English I	3(3-0-6)	2. Area of Concentration Courses	94 credits
212102 English II	3(3-0-6)	Core Courses	29 credits
212103 English III	3(3-0-6)	301301 Quality Management	2(2-0-4)
212104 English IV	3(3-0-6)	302111 Calculus I	3(3-0-6)
Professional English	6 credits	302112 Calculus II	3(3-0-6)
212205 English for Science and Technology I	3(2-2-5)	303101 Chemistry I	3(3-0-6)
212206 English for Science and Technology II	3(2-2-5)	303102 Chemistry II	3(3-0-6)
Thai Group	2 credits	303103 Chemistry Laboratory	1(0-3-0)
208101 Thai Language Skills	2(2-0-4)	306101 General Biology I	3(3-0-6)
Information Technology Group	3 credits	306102 General Biology Laboratory I	1(0-3-0)
310101 Computer and the Internet	3(2-2-5)	308101 Introductory Physics I	3(3-0-6)
Interdisciplinary Integration Group	9 credits	308102 Introductory Physics II	3(3-0-6)
999101 Interdisciplinary Integration I	3(3-0-6)	308103 Introductory Physics Laboratory I	1(0-3-0)
		312201 Elementary Statistics	3(3-0-6)

Professional Courses	26 credits	316316 Analytical Biochemistry	2(2-0-4)
303222 Organic Chemistry I	3(3-0-6)	316331 Isotopic Methods in Biochemistry	
303224 Organic Chemistry II	3(3-0-6)		2(2-0-4)
303225 Fundamental Organic Chemistry Laboratory I	1(0-3-0)	316332 Techniques in Cell and Tissue Culture	3(2-3-4)
303226 Fundamental Organic Chemistry Laboratory II	1(0-3-0)	316341 Nutritional Biochemistry	3(3-0-6)
303230 Physical Chemistry	3(3-0-6)	316342 Nutritional Biochemistry	1(0-3-0)
303231 Physical Chemistry Laboratory		316351 Biochemical Water Treatment	
	1(0-3-0)		3(3-0-6)
303250 Analytical Chemistry	3(3-0-6)	316361 Principles of Genetic Engineering	
303251 Analytical Chemistry Laboratory			3(3-0-6)
	1(0-3-0)	316371 Introduction to Biotechnology	
305201 Introductory Microbiology	4(3-3-6)		3(3-0-6)
305331 Immunology	3(2-3-4)	316381 Research Method in Biochemistry	
306321 Genetics	3(2-3-4)		1(1-0-2)
Major Courses	39 credits	316382 Computer for Biochemical Research	2(1-2-3)
Major Required Courses	20 credits	316417 Enzymology	3(3-0-6)
316201 General Biochemistry	3(3-0-6)	316424 Experiments in Metabolism	2(0-6-0)
316221 General Biochemistry Laboratory		316433 Bioseparation	3(3-0-6)
	1(0-3-0)	316443 Food Biochemistry	3(3-0-6)
316311 Biochemistry I	3(3-0-6)	316444 Biochemistry of Exercise	2(2-0-4)
316312 Biochemistry II	3(3-0-6)	316452 Marine Biochemistry	2(2-0-4)
316322 Biochemistry Techniques I	3(1-6-2)	316453 Biochemistry of Natural Pigments	2(2-0-4)
316323 Biochemistry Techniques II	3(1-6-2)	316454 Biopolymer	2(2-0-4)
316491 Biochemical Seminar I	1(1-0-2)	316462 Biochemical Genetics	2(2-0-4)
316492 Biochemical Seminar II	1(1-0-2)	316463 Molecular Genetics	2(2-0-4)
316493 Research Projects	2(0-6-0)	316464 Principles of Protein Engineering	2(2-0-4)
Major Elective Courses	19 credits	316472 Biochemical Engineering	3(3-0-6)
316313 Plant Biochemistry	3(3-0-6)		
316314 Animal Biochemistry	3(3-0-6)		
316315 Plant Biochemistry	2(2-0-4)		

316473	Industrial Biochemistry	3(3-0-6)	309434	Natural Products from Aquaculture	
316474	Biotechnology of Fermentation				3(3-0-6)
		3(2-3-4)	311301	Introductory Food Science and	
316483	Selected Topics in Biochemistry			Technology	2(2-0-4)
		2(2-0-4)	311302	General Food Chemistry	2(2-0-4)
303422	Natural Products	2(1-3-2)	312202	Biostatistics	3(3-0-6)
303426	Forensic Science	2(1-3-2)	317206	Principles of Pharmacology	
303474	Polymer Chemistry	2(2-0-4)			2(2-0-4)
303475	Environmental Chemistry	2(2-0-4)	317446	Medicinal Plants	2(2-0-4)
303476	Pharmaceutical Chemistry	2(2-0-4)			
303477	Cosmetic Chemistry	2(2-0-4)			
303478	Polymer Technology	2(2-0-4)			
303479	Rubber Technology	2(2-0-4)			
303483	Petroleum Chemistry	2(2-0-4)			
305311	Microbial Genetics	3(3-0-6)			
305351	Microbial Enzyme	3(2-3-4)			
305412	Genetic Engineering	3(2-3-4)			
305435	Bioactive Compounds from				
	Microorganisms	2(2-0-4)			
306311	General Physiology	3(3-0-6)			
306418	Fundamental Bioprocess				
	Engineering	3(2-3-4)			
309201	Marine Biology	3(2-3-4)			
309402	Marine Biotoxins	3(3-0-6)			
309431	Water Quality Analysis	3(2-3-4)			
309438	Environmental Toxicology	3(3-0-6)			
309353	Fisheries Products Technology				
		3(2-3-4)			
309443	Aquatic Pollution	3(3-0-6)			
309478	Aquaculture Biotechnology	3(3-0-6)			

3. Free Elective Courses

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Science Program in Biology

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses	
	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology	
Group	3 credits
- Interdisciplinary Integration	
Group	9 credits

Elective Courses	4 credits	999102 Interdisciplinary Integration II	3(3-0-6)
2. Area of Concentration Courses	94 credits	999103 Interdisciplinary Integration III	3(3-0-6)
- Core Courses	29 credits	Elective Courses	4 credits
- Professional Courses	19 credits	203103 Contemporary World Affairs	2(2-0-4)
- Major Courses	46 credits	216101 Speech for Effective Communication	2(2-0-4)
- Major Required Courses	28 credits	222102 Personality and Self Development	2(2-0-4)
- Major Elective Courses	18 credits	226101 General Economics	2(2-0-4)
3. Free Elective Courses	6 credits	230101 General Knowledge on Business	2(2-0-4)
1. General Education Courses	30 credits	501102 Safety in Everyday Life	2(2-0-4)
Required Courses	26 credits	2. Area of Concentration Courses	94 credits
English Group	12 credits	Core Courses	29 credits
Basic English	6 credits	301301 Quality Management	2(2-0-4)
212101 English I	3(3-0-6)	302111 Calculus I	3(3-0-6)
212102 English II	3(3-0-6)	302112 Calculus II	3(3-0-6)
212103 English III	3(3-0-6)	303101 Chemistry I	3(3-0-6)
212104 English IV	3(3-0-6)	303102 Chemistry II	3(3-0-6)
Professional English	6 credits	303103 Chemistry Laboratory	1(0-3-0)
212205 English for Science and Technology I	3(2-2-5)	306101 General Biology I	3(3-0-6)
212206 English for Science and Technology II	3(2-2-5)	306102 General Biology Laboratory I	1(0-3-0)
Thai Group	2 credits	308101 Introductory Physics I	3(3-0-6)
208101 Thai Language Skills	2(2-0-4)	308102 Introductory Physics II	3(3-0-6)
Information Technology Group	3 credits	308103 Introductory Physics Laboratory I	1(3-3-0)
310101 Computer and the Internet	3(2-2-5)	312201 Elementary Statistics	3(3-0-6)
Interdisciplinary Integration Group	9 credits		
999101 Interdisciplinary Integration I	3(3-0-6)		

	Professional Courses	19 credits		
303220	Organic Chemistry	3(3-0-6)	306322	Genetic Engineering 3(2-3-4)
303221	Organic Chemistry Laboratory		306323	Cytogenetics 3(2-3-4)
		1(0-3-0)	306332	Invertebrate Zoology 3(2-3-4)
303250	Analytical Chemistry	3(3-0-6)	306333	Vertebrate Zoology 3(2-3-4)
303251	Analytical Chemistry Laboratory		306334	Histology 3(2-3-4)
		1(0-3-0)	306335	Animal Taxonomy 3(2-3-4)
305201	Introductory Microbiology	4(3-3-6)	306336	Animal Behavior 3(3-0-6)
312202	Biostatistics	3(3-0-6)	306337	Embryology 3(2-3-4)
316201	General Biochemistry	3(3-0-6)	306338	General Parasitology 3(2-3-4)
316331	General Biochemistry Laboratory		306339	Entomology 3(2-3-4)
		1(0-3-0)	306342	Morphology of Plants 3(2-3-4)
	Major Courses	46 credits	306343	Plant Anatomy 3(2-3-4)
	Major Required Courses	28 credits	306344	Plant Taxonomy 3(2-3-4)
306211	Ecology	3(2-3-4)	306345	Horticulture 3(2-3-4)
306212	Cell Biology	3(3-0-6)	306346	Plant Pathology 3(2-3-4)
306231	Zoology	3(2-3-4)	306347	Weeds and Weed Control 3(2-3-4)
306241	Botany	3(2-3-4)	306348	Ornamental Plant and Landscape 3(2-3-4)
306313	Developmental Biology	3(2-3-4)	306349	Economic Crops 3(3-0-6)
306321	Genetics	3(2-3-4)	306361	Principles of Biological Control 3(3-0-6)
306331	Animal Physiology	3(2-3-4)	306411	Molecular Biology 3(3-0-6)
306341	Plant Physiology	3(2-3-4)	306412	Biotechnology 3(2-3-4)
306391	Seminar in Biology I	1(0-2-1)	306416	Selected Topics in Biology 2(2-0-4)
306392	Seminar in Biology II	1(0-2-1)	306417	Plant Propagation 3(2-3-4)
306393	Biology Projects	2(0-4-2)	306418	Fundamental Bioprocess Engineering 3(2-3-4)
	Major Elective Courses	18 credits	306419	Advanced Practical Microscopy 3(2-3-4)
306314	Biotechniques	3(2-3-4)	306422	Principles of Evolution 3(3-0-6)
306315	Microtechniques	3(2-3-4)		
306316	Planktonology	3(2-3-4)		
306317	Tropical Pests	3(2-3-4)		
306318	Medical Entomology	3(2-3-4)		
306319	Scientific Picture	2(1-3-2)		

306423	Basic Techniques in Molecular Biology	3(2-3-4)
306431	Economic Entomology	3(2-3-4)
306432	Endocrinology	3(2-3-4)
306433	Ornithology	3(2-3-4)
306434	Protozoology	3(2-3-4)
306435	Malacology	3(2-3-4)
306436	Ichthyology	3(2-3-4)
306437	Comparative Anatomy	3(2-3-4)
306438	Acarology	3(2-3-4)
306441	Plant Ecology	3(2-3-4)
306442	Aquatic Plants	3(2-3-4)
306443	Phycology	3(2-3-4)
306444	General Mycology	3(2-3-4)
306445	Principles of Plants Breeding	3(2-3-4)
306446	Plant Growth and Development	3(2-3-4)
306447	Plants Tissue Culture	3(2-3-4)
306448	General Medicinal Plants	3(2-3-4)
306449	Plants Hormones	3(2-3-4)
306450	Plant Response to Physical Environment	3(2-3-4)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

**Bachelor of Science Program in
Chemistry**

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses

30 credits

Required Courses 26 credits

- English Group 12 credits

- Thai Group 2 credits

- Information Technology

Group 3 credits

- Interdisciplinary Integration

Group 9 credits

Elective Courses 4 credits

2. Area of Concentration Courses

94 credits

- Core Courses 29 credits

- Major Required Courses

50 credits

- Major Elective Courses

15 credits

3. Free Elective Courses 6 credits

1. General Education Courses 30 credits

Required Courses 26 credits

English Group 12 credits

Basic English 6 credits

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103 English III 3(3-0-6)

212104	English IV	3(3-0-6)	2. Area of Concentration Courses 94 credits
	Professional English	6 credits	Core Courses 29 credits
212205	English for Science and Technology I	3(2-2-5)	301301 Quality Management 2(2-0-4)
212206	English for Science and Technology II	3(2-2-5)	302111 Calculus I 3(3-0-6)
	Thai Group	2 credits	302112 Calculus II 3(3-0-6)
208101	Thai Language Skills	2(2-0-4)	303101 Chemistry I 3(3-0-6)
	Information Technology Group	3 credits	303102 Chemistry II 3(3-0-6)
310101	Computer and the Internet	3(2-2-5)	303103 Chemistry Laboratory 1(0-3-0)
	Interdisciplinary Integration Group	9 credits	306101 General Biology I 3(3-0-6)
999101	Interdisciplinary Integration I	3(3-0-6)	306102 General Biology Laboratory I 1(0-3-0)
999102	Interdisciplinary Integration II	3(3-0-6)	308101 Introductory Physics I 3(3-0-6)
999103	Interdisciplinary Integration III	3(3-0-6)	308102 Introductory Physics II 3(3-0-6)
	Elective Courses	4 credits	308103 Introductory Physics Laboratory I 1(0-3-0)
203103	Contemporary World Affairs	2(2-0-4)	312201 Elementary Statistics 3(3-0-6)
216101	Speech for Effective Communication	2(2-0-4)	Professional Courses 50 credits
222102	Personality and Self Development	2(2-0-4)	302222 Organic Chemistry I 3(3-0-6)
226101	General Economics	2(2-0-4)	303223 Organic Chemistry Laboratory I 1(0-3-0)
230101	General Knowledge on Business	2(2-0-4)	303224 Organic Chemistry II 3(3-0-6)
501102	Safety in Everyday Life	2(2-0-4)	303232 Physical Chemistry I 3(3-0-6)
			303233 Physical Chemistry Laboratory I 1(0-3-0)
			303240 Qualitative Inorganic Analysis Laboratory 1(0-3-0)
			303241 Inorganic Chemistry I 3(3-0-6)
			303252 Analytical Chemistry I 3(3-0-6)
			303253 Analytical Chemistry Laboratory I 2(0-6-0)

303321 Spectroscopy of Organic Compounds	3(3-0-6)	303429 Selected Topics in Organic Chemistry	2(2-0-4)
303322 Organic Chemistry III	3(3-0-6)	303431 Quantum Chemistry	2(2-0-4)
303323 Organic Chemistry Laboratory II	2(0-6-0)	303432 Surface Chemistry	2(2-0-4)
303331 Physical Chemistry II	3(3-0-6)	303439 Selected Topics in Physical Chemistry	2(2-0-4)
303332 Physical Chemistry Laboratory II	1(0-3-0)	303441 Organometallic Chemistry	2(2-0-4)
303333 Physical Chemistry III	3(3-0-6)	303442 Spectroscopy of Inorganic Compounds	2(2-0-4)
303341 Inorganic Chemistry II	3(3-0-6)	303443 Bioinorganic Chemistry	2(2-0-4)
303342 Inorganic Chemistry III	3(3-0-6)	303449 Selected Topics in Inorganic Chemistry	2(2-0-4)
303343 Inorganic Chemistry Laboratory	1(0-3-0)	303451 Chemical Separations	2(2-0-4)
303351 Analytical Chemistry II	3(3-0-6)	303452 Chemical Analysis on Microchip	2(2-0-4)
303352 Analytical Chemistry Laboratory II	2(0-6-0)	303459 Selected Topics in Analytical Chemistry	2(2-0-4)
303491 Chemistry Seminar	1(0-2-1)	303471 Chemical Literature	2(2-0-4)
303492 Chemistry Projects	2(0-6-0)	303472 Nuclear Chemistry	2(2-0-4)
Major Required Courses 15 credits		303473 Applied Electrochemistry	2(2-0-4)
302217 Calculus III and Differential Equations	3(3-0-6)	303474 Polymer Chemistry	2(2-0-4)
303391 Computer for Chemistry	1(0-3-0)	303476 Pharmaceutical Chemistry	2(2-0-4)
303392 Computational Chemistry	2(1-2-3)	303477 Cosmetic Chemistry	2(2-0-4)
303421 Stereochemistry	2(2-0-4)	303478 Polymer Technology	2(2-0-4)
303422 Natural Products	2(1-3-2)	303479 Rubber Technology	2(2-0-4)
303423 Organic Synthesis	2(2-0-4)	303481 Industrial Chemistry	2(2-0-4)
303424 Organic Chemistry Laboratory III	2(0-6-0)	303482 Special Topics in Industrial Chemistry	2(2-0-4)
303425 Photochemistry	2(2-0-4)	303483 Petroleum Chemistry	2(2-0-4)
303426 Forensic Science	2(1-3-2)	303484 Industrial Catalysis	2(2-0-4)
		310221 FORTRAN Programming	3(2-2-5)

311302	General Food Chemistry	2(2-0-4)	- Professional Courses	3 credits
316201	General Biochemistry	3(3-0-6)	- Major Courses	67 credits
316221	General Biochemistry Laboratory	1(0-3-0)	3. Free Elective Courses	6 credits
			1. General Education Courses	30 credits
316454	Biopolymer	2(2-0-4)	Required Courses	26 credits
3. Free Elective Courses	6 credits		English Group	12 credits
Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.			Basic English	6 credits
			212101 English I	3(3-0-6)
			212102 English II	3(3-0-6)
			212103 English III	3(3-0-6)
			212104 English IV	3(3-0-6)
			Professional English	6 credits
			212205 English for Science and Technology I	3(2-2-5)
			212206 English for Science and Technology II	3(2-2-5)
			Thai Group	2 credits
			208101 Thai Language Skills	2(2-0-4)

Bachelor of Science Program in Computer Science

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Courses	99 credits
- Core Courses	29 credits

Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits
203103 Contemporary World Affairs	2(2-0-4)

216101	Speech for Effective Communication	2(2-0-4)	310214	Data Structures and Algorithms	3(3-0-6)
222102	Personality and Self Development	2(2-0-4)	310231	Computer Organization	3(2-2-5)
226101	General Economics	2(2-0-4)	310232	Unix Tools and Programming	3(2-2-5)
230101	General Knowledge on Business	2(2-0-4)	310312	System Analysis and Design	3(3-0-6)
501102	Safety in Everyday Life	2(2-0-4)	310313	Software Engineering	3(3-0-6)
2. Area of Concentration Courses 99 credits			310323	Principles of Programming Languages	3(3-0-6)
Core Courses 29 credits			310324	Object-Oriented Programming	3(2-3-4)
301301	Quality Management	2(2-0-4)	310341	Database Systems	3(3-0-6)
302111	Calculus I	3(3-0-6)	310351	Theory of Computation	3(3-0-6)
302112	Calculus II	3(3-0-6)	310352	Introduction to Artificial Intelligence	3(3-0-6)
303101	Chemistry I	3(3-0-6)	310491	Computer Science Seminar	1(0-3-0)
303102	Chemistry II	3(3-0-6)	310492	Computer Projects	2(0-6-0)
303103	Chemistry Laboratory	1(0-3-0)	Major Elective Courses 24 credits		
306101	General Biology I	3(3-0-6)	302221	Calculus III	3(3-0-6)
306102	General Biology Laboratory I	1(0-3-0)	310311	Information Storage and Retrieval	3(3-0-6)
308101	Introductory Physics I	3(3-0-6)	310331	Operating Systems	3(3-0-6)
308102	Introductory Physics II	3(3-0-6)	310332	Introduction to System Programming	3(3-0-6)
308103	Introductory Physics Laboratory I	1(0-3-0)	310333	Microcomputer and Microprocessors	3(2-2-5)
312201	Elementary Statistics	3(3-0-6)	310353	Knowledge-Base Systems	3(3-0-6)
Professional Courses 3 credits			310354	Graphics Programming	3(2-2-5)
302232	Linear Algebra I	3(2-3-4)	310361	Data Communications and Computer Networks I	3(2-2-5)
Major Courses 67 credits			310371	Internet Technology	3(3-0-6)
Major Required Courses 43 credits					
310211	Computer Programming	3(2-2-5)			
310212	Introduction to Computer Science	4(4-0-8)			
310213	Discrete Structure	3(3-0-6)			

310372	Internet Information Services	3(3-0-6)
310411	Object-Oriented Analysis and Design	3(3-0-6)
310431	Computer Logic Design	3(2-2-5)
310432	Microcomputer Interfacing	3(2-2-5)
310433	Compiler Construction	3(3-0-6)
310434	System Administration	3(3-0-6)
310435	Introduction to Distributed Systems	3(3-0-6)
310451	Numerical Computing	3(3-0-6)
310452	Introduction to Artificial Neural Networks	3(3-0-6)
310453	Introduction to Digital Image Processing	3(3-0-6)
310454	Systems Simulation and Modeling	3(3-0-6)
310455	Expert Systems	3(3-0-6)
310461	Data Communications and Computer Networks II	3(3-0-6)
310462	Network Management	3(3-0-6)
310471	Electronic Commerce	3(3-0-6)
310482	Client-Server Computing	3(3-0-6)
310493	Selected Topics in Computer Science I	3(3-0-6)
310494	Selected Topics in Computer Science II	3(2-2-5)
312351	Operation Research	3(3-0-6)
321342	Management Information Systems	3(3-0-6)

321412	The Human Computer Interaction	3(3-0-6)
321442	Office Information Systems	3(3-0-6)
321483	Multimedia Technology Presentation	3(2-2-5)
321446	Decision Support Systems	3(3-0-6)
321483	Multimedia Technology Presentation	3(2-2-5)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Science Program in Food Science

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses

	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits

Elective Courses	4 credits
2. Area of Concentration Courses	
	99 credits
- Core Courses	29 credits
- Professional Courses	26 credits
- Major Courses	44 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)

999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits
203103 Contemporary World Affairs	2(2-0-4)
216101 Speech for Effective Communication	2(2-0-4)
222102 Personality and Self Development	2(2-0-4)
226101 General Economics	2(2-0-4)
230101 General Knowledge on Business	2(2-0-4)
501102 Safety in Everyday Life	2(2-0-4)
2. Area of Concentration Courses	99 credits
Core Courses	29 credits
301301 Quality Management	2(2-0-4)
302111 Calculus I	3(3-0-6)
302112 Calculus II	3(3-0-6)
303101 Chemistry I	3(3-0-6)
303102 Chemistry II	3(3-0-6)
303103 Chemistry Laboratory	3(3-0-6)
306101 General Biology I	3(3-0-6)
306102 General Biology Laboratory I	1(0-3-0)
308101 Introductory Physics I	3(3-0-6)
308102 Introductory Physics II	3(3-0-6)
308103 Introductory Physics Laboratory I	1(0-3-0)
312201 Elementary Statistics	3(3-0-6)

	Professional Courses	26 credits	311491 Seminar	1(1-0-2)
303220	Organic Chemistry	3(3-0-6)	311492 Research Techniques	1(1-0-2)
303221	Organic Chemistry Laboratory	1(0-3-0)	311493 Special Problems	2(0-6-0)
			Major Elective Courses	6 credits
303230	Physical Chemistry	3(0-3-6)	311471 Bakery Technology	3(2-3-4)
303231	Physical Chemistry Laboratory	1(0-3-0)	311472 Technology of Meat, Poultry and Products	3(2-3-4)
303250	Analytical Chemistry	3(3-0-6)	311473 Fruit and Vegetable Technology	3(2-3-4)
303251	Analytical Chemistry Laboratory	1(0-3-0)	311474 Dairy Technology	3(2-3-4)
316201	General Biochemistry	3(3-0-6)	311475 Fishery Product Technology	
316221	General Biochemistry Laboratory	1(0-3-0)	311476 Technology of Edible Fat and Oil	3(2-3-4)
316311	Biochemistry I	3(3-0-6)	311477 Non-Alcoholic Beverage Technology	3(2-3-4)
305201	Introductory Microbiology	4(3-3-6)	311478 Alcoholic Beverage Technology	3(2-3-4)
312202	Biostatistics	3(3-0-6)		
	Major Courses	77 credits		
	Major Required Courses	38 credits	311479 Confectionery Technology	3(2-3-4)
311311	Food and Nutrition	3(3-0-6)	311481 Cereal Technology	3(2-3-4)
311321	Food Processing I	3(2-3-4)	311482 Egg Science and Technology	
311322	Food Processing II	3(2-3-4)	311483 Food Packaging	3(2-3-4)
311331	Food Engineering I	3(2-3-4)	311484 Food Product Development	
311341	Food Analysis	3(2-3-4)	311485 Selected Topics in Food Science and Technology	3(3-0-6)
311342	Food Chemistry	4(3-3-6)	311486 Ethics of Food Scientist	2(2-0-4)
311362	Food Plant Sanitation	2(2-0-4)		
611363	Food Quality Assurance	3(2-3-4)	3. Free Elective Courses	6 credits
311423	Food Processing III	2(2-0-4)	Students may take at least 6 credits	
311432	Food Engineering II	3(2-3-4)	as free elective credits from courses provided	
311451	Food Microbiology	4(3-3-6)	at Burapha University or other universities	
311461	Food Legislation and Standardization	1(1-0-2)	both in Thailand and abroad to complete the	
			graduation requirement.	

Bachelor of Science Program in Mathematics

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses		30 credits
Required Courses		26 credits
- English Group		12 credits
- Thai Group		2 credits
- Information Technology Group		3 credits
- Interdisciplinary Integration Group		9 credits
Elective Courses		4 credits
2. Area of Concentration Courses		94 credits
- Core Courses		29 credits
- Professional Courses		6 credits
- Major Courses		59 credits
3. Free Elective Courses		6 credits
1. General Education Courses		30 credits
Required Courses		26 credits
English Group		12 credits
Basic English		6 credits
212101	English I	3(3-0-6)
212102	English II	3(3-0-6)
212103	English III	3(3-0-6)
212104	English IV	3(3-0-6)

	Professional English	6 credits
212205	English for Science and Technology I	3(2-2-5)
212206	English for Science and Technology II	3(2-2-5)
	Thai Group	2 credits
208101	Thai Language Skills	2(2-0-4)
	Information Technology Group	3 credits
310101	Computer and the Internet	3(2-2-5)
	Interdisciplinary Integration Group	9 credits
999101	Interdisciplinary Integration I	3(3-0-6)
999102	Interdisciplinary Integration II	3(3-0-6)
999103	Interdisciplinary Integration III	3(3-0-6)
	Elective Courses	4 credits
203103	Contemporary World Affairs	2(2-0-4)
216101	Speech for Effective Communication	2(2-0-4)
222102	Personality and Self Development	2(2-0-4)
226101	General Economics	2(2-0-4)
230101	General Knowledge on Business	2(2-0-4)
501102	Safety in Everyday Life	2(2-0-4)
2. Area of Concentration Courses		
	Core Courses	29 credits
301301	Quality Management	2(2-0-4)
302111	Calculus I	3(3-0-6)

302112	Calculus II	3(3-0-6)	Major Elective Courses	29 credits
303101	Chemistry I	3(3-0-6)	302319	Introduction to Complex Variables
303102	Chemistry II	3(3-0-6)		3(3-0-6)
303103	Chemistry Laboratory	1(0-3-0)	302324	Advanced Calculus
306101	General Biology I	3(3-0-6)	302336	Survey of Geometry
306102	General Biology Laboratory I		302342	Theory of Numbers
		1(0-3-0)	302343	Set Theory
308101	Introductory Physics I	3(3-0-6)	302434	Linear Algebra II
308102	Introductory Physics II	3(3-0-6)	302435	Abstract Algebra II
308103	Introductory Physics Laboratory I		302437	Non-Euclidean Geometry
		1(0-3-0)	302438	Projective Geometry
312201	Elementary Statistics	3(3-0-6)	302444	Introduction to Mathematical
	Professional Courses	6 credits		Logics
310222	C Programming	3(2-3-4)	302445	History of Mathematics
312211	Statistical Methods	3(3-0-6)	302446	Introduction of Topology
	Major Courses	59 credits	302452	Probability Theory
Major Required Courses		30 credits	302474	Introduction to Real Analysis
302202	Mathematical Computing	2(1-2-3)		3(3-0-6)
302221	Calculus III	3(3-0-6)	302484	Partial Differential Equations
302232	Linear Algebra I	3(3-0-6)		3(3-0-6)
302241	Principles of Mathematics	3(3-0-6)	302491	Special Topics in Mathematics
302251	Elementary Probability and			3(3-0-6)
	Applications	3(3-0-6)	302382	Mathematics of Finance
302281	Ordinary Differential Equations		302383	Mathematics of Insurance
		3(3-0-6)	302475	Numerical Analysis II
302333	Abstract Algebra I	3(3-0-6)	302485	Graph Theory and Applications
302371	Vector Analysis	3(3-0-6)		3(3-0-6)
302372	Mathematical Analysis	3(3-0-6)	302486	Introduction to Combinatorics
302473	Numerical Analysis I	3(3-0-6)		3(3-0-6)
302493	Seminar	1(0-2-1)	302492	Special Topics in Applied
				Mathematics
				3(3-0-6)

310211	Computer Programming	3(2-2-5)
310213	Discrete Structures	3(3-0-6)
310214	Data Structures and Algorithms	3(3-0-6)
310312	Systems Analysis and Design	3(3-0-6)
310321	Visual BASIC Programming	3(2-2-5)
310351	Theory of Computation	3(3-0-6)
310371	Internet Technology	3(3-0-6)
312321	Mathematical Statistics I	3(3-0-6)
312322	Mathematical Statistics II	3(3-0-6)
312341	Sampling Techniques	3(3-0-6)
312342	Experimental Designs	3(3-0-6)
312343	Regression Analysis	3(3-0-6)
312344	Quality Control	3(3-0-6)
312345	Non-Parametric Statistics	3(3-0-6)
312346	Decision Theory	3(3-0-6)
312347	Time Series and Index Numbers	3(3-0-6)
312351	Operation Research I	3(3-0-6)
312352	Operation Research II	3(3-0-6)
312353	Applied Stochastic Processes	3(3-0-6)
312354	Linear Programming	3(3-0-6)
312355	Non-Linear Programming	3(3-0-6)
312456	Simulation	3(3-0-6)
3.	Free Elective Courses	6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities

both in Thailand and abroad to complete the graduation requirement.

Bachelor of Science Program in Medical Science

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses

30 credits

Required Courses 26 credits

- English Group 12 credits

- Thai Group 2 credits

- Information Technology
3 credits

- Interdisciplinary Integration

Group 9 credits

Elective Courses 4 credits

2. Area of Concentration Courses

99 credits

- Core Courses 29 credits

- Professional Courses 15 credits

- Major Courses 55 credits

3. Free Elective Courses 6 credits

1. General Education Courses 30 credits

Required Courses 26 credits

English Group 12 credits

Basic English 6 credits

212101 English I 3(3-0-6)

212102 English II 3(3-0-6)

212103	English III	3(3-0-6)
212104	English IV	3(3-0-6)
	Professional English	6 credits
212205	English for Science and Technology I	3(2-2-5)
212206	English for Science and Technology II	3(2-2-5)
	Thai Group	2 credits
208101	Thai Language Skills	2(2-0-4)
	Information Technology Group	3 credits
310101	Computer and the Internet	3(2-2-5)
	Interdisciplinary Integration Group	9 credits
999101	Interdisciplinary Integration I	3(3-0-6)
999102	Interdisciplinary Integration II	3(3-0-6)
999103	Interdisciplinary Integration III	3(3-0-6)
	Elective Courses	4 credits
203103	Contemporary World Affairs	2(2-0-4)
216101	Speech for Effective Communication	2(2-0-4)
222102	Personality and Self Development	2(2-0-4)
226101	General Economics	2(2-0-4)
230101	General Knowledge on Business	2(2-0-4)
501102	Safety in Everyday Life	2(2-0-4)

2. Area of Concentration Courses

	Core Courses	29 credits
301301	Quality Management	2(2-0-4)
302111	Calculus I	3(3-0-6)
302112	Calculus II	3(3-0-6)
303101	Chemistry I	3(3-0-6)
303102	Chemistry II	3(3-0-6)
303103	Chemistry Laboratory	1(0-3-0)
306101	General Biology I	3(3-0-6)
306102	General Biology Laboratory I	1(0-3-0)
308101	Introductory Physics I	3(3-0-6)
308102	Introductory Physics II	3(3-0-6)
308103	Introductory Physics Laboratory I	1(0-3-0)
312201	Elementary Statistics	3(3-0-6)
	Professional Courses	15 credits
302220	Organic Chemistry	3(3-0-6)
303221	Organic Chemistry Laboratory	1(0-3-0)
305103	Medical Microbiology	4(3-3-6)
306213	Cell and Molecular Biology	3(3-0-6)
316201	General Biochemistry	3(3-0-6)
316221	General Biochemistry Laboratory	1(0-3-0)
	Major Courses	55 credits
	Major Required Courses	40 credits
317221	Organic Chemistry Laboratory	4(3-3-6)
317222	Human Gross Anatomy II	3(2-3-4)
317231	Medical Physiology I	4(3-3-6)

317325	Human Microanatomy	4(3-3-6)
317332	Medical Physiology	4(3-3-6)
317341	Medical Pharmacology I	4(3-3-6)
317351	General Pathology	4(3-3-6)
317361	Medical Parasitology	3(2-3-4)
317442	Medical Pharmacology II	3(2-3-4)
317452	Systemic Pathology	4(3-3-6)
317491	Seminar	1(0-2-1)
317493	Research Projects in Medical Science	2(0-6-0)
Major Elective Courses		15 credits
Required Courses		13 credits
305331	Immunology	3(2-3-4)
311311	Food and Nutrition	3(2-3-4)
317423	Developmental Anatomy	3(3-0-6)
317424	Neuroanatomy	4(3-3-6)
Elective Courses		2 credits
317412	Medical Bacteriology	2(1-3-2)
317413	Clinical Mycology	2(1-3-2)
317414	Clinical Virology	2(1-3-2)
317415	Clinical Correlation	1(1-0-2)
317427	Techniques of Electron Microscopy	2(1-3-2)
317431	Selected Topics in Physiology	2(2-0-4)
317446	Medicinal Plants	2(2-0-4)
305331	Immunology	3(2-3-4)
311311	Food and Nutrition	3(3-0-6)
317412	Medical Bacteriology	2(1-3-2)
317413	Clinical Mycology	2(1-3-2)
317414	Clinical Virology	2(1-3-2)
317415	Clinical Correlation	1(1-0-2)

317423	Developmental Anatomy	3(3-0-6)
317424	Neuroanatomy	4(3-3-6)
317426	Human Genetics and Genetic Engineering	4(3-3-6)
317427	Techniques of Electron Microscopy	2(1-3-2)
317431	Selected Topics in Physiology	2(2-0-4)
317446	Medicinal Plants	2(2-0-4)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Science Program in Microbiology

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits

2. Area of Concentration Courses	99 credits	Elective Courses	4 credits
- Core Courses	29 credits	203103 Contemporary World Affairs	2(2-0-4)
- Professional Courses	24 credits	216101 Speech for Effective Communication	2(2-0-4)
- Major Courses	46 credits	222102 Personality and Self Development	2(2-0-4)
3. Free Elective Courses	6 credits	226101 General Economics	2(2-0-4)
1. General Education Courses	30 credits	230101 General Knowledge on Business	2(2-0-4)
Required Courses	26 credits	501102 Safety in Everyday Life	2(2-0-4)
English Group	12 credits	2. Area of Concentration Courses	99 credits
Basic English	6 credits	Core Courses	29 credits
212101 English I	3(3-0-6)	301301 Quality Management	2(2-0-4)
212102 English II	3(3-0-6)	302111 Calculus I	3(3-0-6)
212103 English III	3(3-0-6)	302112 Calculus II	3(3-0-6)
212104 English IV	3(3-0-6)	303101 Chemistry I	3(3-0-6)
Professional English	6 credits	303102 Chemistry II	3(3-0-6)
212205 English for Science and Technology I	3(2-2-5)	303103 Chemistry Laboratory	1(0-3-0)
212206 English for Science and Technology II	3(2-2-5)	306101 General Biology I	3(3-0-6)
Thai Group	2 credits	306102 General Biology Laboratory I	1(0-3-0)
208101 Thai Language Skills	2(2-0-4)	308101 Introductory Physics I	3(3-0-6)
Information Technology Group	3 credits	308102 Introductory Physics II	3(3-0-6)
310101 Computer and the Internet	3(2-2-5)	308103 Introductory Physics Laboratory I	3(3-0-6)
Interdisciplinary Integration Group	9 credits	312201 Elementary Statistics	3(3-0-6)
999101 Interdisciplinary Integration I	3(3-0-6)	Professional Courses	24 credits
999102 Interdisciplinary Integration II	3(3-0-6)	303220 Organic Chemistry	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)	303221 Organic Chemistry Laboratory	1(0-3-0)

303250 Analytical Chemistry	3(3-0-6)	305322 Microbiological Food Analysis	
303251 Analytical Chemistry Laboratory			2(1-3-2)
	1(0-3-0)	305333 Medical Bacteriology	3(2-3-4)
306103 General Biology II	3(3-0-6)	305341 Environmental Microbiology	
306321 Genetics	3(2-3-4)		3(2-3-4)
312202 Biostatistics	3(3-0-6)	305351 Microbial Enzymes	3(2-3-4)
316201 General Biochemistry	3(3-0-6)	305352 Industrial Microbiology	3(2-3-4)
316221 General Biochemistry Laboratory		305412 Genetic Engineering	3(2-3-4)
	1(0-3-0)	305423 Microbial Food Quality	
316311 Biochemistry I	3(3-0-6)	Assurance	2(2-0-4)
Major Courses	46 credits	305424 Seafood Microbiology	3(2-3-4)
Major Required Courses	29 credits	305434 Medical Mycology	3(2-3-4)
305201 Introductory Microbiology	4(3-3-6)	305435 Bioactive Compounds from	
305202 Instrumental Methods in		Microorganisms	2(2-0-4)
Microbiology	2(1-3-2)	305442 Aquatic Microbiology	3(2-3-4)
305303 Determinative Bacteriology	3(2-3-4)	305443 Wastewater Microbiology	3(2-3-4)
305304 Mycology	3(2-3-4)	305444 Soil Microbiology	3(2-3-4)
305311 Microbial Genetics	3(3-0-6)	305445 Hazardous Waste Microbiology	
305331 Immunology	3(2-3-4)		3(2-3-4)
305361 Ethics for Scientist	1(1-0-2)	305446 Agricultural Microbiology	3(2-3-4)
305391 Seminar in Microbiology I	1(0-2-1)	305447 Biology of Mushroom	3(2-3-4)
305405 Microbial Physiology	3(2-3-4)	305448 Microbiology of Plant Diseases	
305432 Virology	3(2-3-4)		3(2-3-4)
305492 Seminar in Microbiology II	1(0-2-1)	305453 Fundamentals of Fermentation	
305493 Special Problems in		Technology	3(2-3-4)
Microbiology	2(0-4-2)	305454 Yeast and Yeast Technology	
Major Elective Courses	17 credits		3(2-3-4)
305306 Determinative Mycology	2(1-3-2)	305455 Fermented Food Industry	3(2-3-4)
305321 Food Microbiology	3(2-3-4)	305456 Alcoholic Beverage Microbiology	
			3(2-3-4)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

**Bachelor of Science Program in
Physics**

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses 30 credits
 - Required Courses 26 credits
 - English Group 12 credits
 - Thai Group 2 credits
 - Information Technology Group 3 credits
 - Interdisciplinary Integration Group 9 credits
 - Elective Courses 4 credits
2. Area of Concentration Courses 94 credits
 - Core Courses 29 credits
 - Professional Courses 3 credits
 - Major Courses 62 credits
3. Free Elective Courses 6 credits

1. General Education Courses 30 credits**Required Courses**

English Group	12 credits
Basic English 6 credits	
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English 6 credits	
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
Thai Group 2 credits	
208101 Thai Language Skills	2(2-0-4)
Information Technology Group 3 credits	
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group 9 credits	
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses 4 credits	
203103 Contemporary World Affairs	2(2-0-4)
216101 Speech for Effective Communication	2(2-0-4)

222102	Personality and Self Development		308221	Thermodynamic	3(3-0-6)
		2(2-0-4)	308231	Optics	3(3-0-6)
226101	General Economics	2(2-0-4)	308241	Electricity and Magnetism	3(3-0-6)
230101	General Knowledge on Business		308342	Introduction to Electromagnetic	
		2(2-0-4)		Theory	3(3-0-6)
501102	Safety in Everyday Life	2(2-0-4)	308351	Nuclear Physics I	3(3-0-6)
2. Area of Concentration Courses 94 credits			308361	Modern Physics	3(3-0-6)
	Core Courses	29 credits	308362	Quantum Mechanics I	3(3-0-6)
301301	Quality Management	2(2-0-4)	308371	Elementary Electronics	3(3-0-6)
302111	Calculus I	3(3-0-6)	308372	Elementary Electronics	
302112	Calculus II	3(3-0-6)		Laboratory	1(0-3-0)
303101	Chemistry I	3(3-0-6)	308391	Physics Laboratory I	2(0-6-0)
303102	Chemistry II	3(3-0-6)	308441	Solid State Physics I	3(3-0-6)
303103	Chemistry Laboratory	1(0-3-0)	308492	Physics Laboratory II	2(0-6-0)
306101	General Biology I	3(3-0-6)	308494	Seminar	1(0-2-1)
306102	General Biology Laboratory I		308495	Physics Projects	2(2-0-4)
		1(0-3-0)	Elective Courses		14 credits
308101	Introductory Physics I	3(3-0-6)	308312	Mechanics II	3(3-0-6)
308102	Introductory Physics II	3(3-0-6)	308313	Fluid Mechanics	3(3-0-6)
308103	Introductory Physics		308343	Basic Electrical Circuit	
	Laboratory I	1(3-3-0)		Analysis	3(3-0-6)
312201	Elementary Statistics	3(3-0-6)	308373	Digital Electronics	3(3-0-6)
	Professional Courses	3 credits	308374	Microcontroller and Applications	
310222	C Programming	3(2-2-5)			3(3-0-6)
	Major Courses	62 credits	308375	Microcontroller and Applications	
Major Required Courses			48 credits		
308204	Introductory Physics			Laboratory	1(0-3-0)
	Laboratory II	1(0-3-0)	308376	Industrial Electronics	3(3-0-6)
308205	Mathematical Physics I	3(3-0-6)	308377	Industrial Electronics Laboratory	
308206	Mathematical Physics II	3(3-0-6)			1(0-3-0)
308207	Mathematical Physics III	3(3-0-6)	308414	Introduction to Astrophysics	3(3-0-6)
308211	Mechanics I	3(3-0-6)	308415	Spherical Astronomy	3(3-0-6)

308416	Introduction to Celestial Mechanic	3(3-0-6)	308385	Environmental Measurement and Instrumentation	3(3-0-6)
308422	Applied Thermodynamics	3(3-0-6)	308387	Energy and Environment	2(2-0-4)
308423	Statistical Physics	3(3-0-6)	308388	Energy and Environment Laboratory	1(0-3-0)
308432	Applied Optics	3(3-0-6)	308407	Introduction to Computational Physics	3(3-0-6)
308433	Introduction to Laser Physics	3(3-0-6)	308408	Computer Simulations of Physics Phenomena	3(3-0-6)
308434	Acoustics and Applications	3(3-0-6)	308424	Vacuum Technology	3(3-0-6)
308442	Solid State Physics II	3(3-0-6)	308435	Environmental Noise Pollution	3(3-0-6)
308443	Introduction to Semiconductor	3(3-0-6)	308447	Thin Film Technology	3(3-0-6)
308444	Introduction to Physics of Microwave	3(3-0-6)	308448	Physics of Solar Cell System	3(3-0-6)
308445	X-ray Crystallography	3(3-0-6)	308455	Health Physics	3(3-0-6)
308446	Atomic and Molecular Spectra	3(3-0-6)	308472	Computer Control and Industrial Applications	3(3-0-6)
308452	Nuclear Physics II	3(3-0-6)	308473	Computer Control and Industrial Applications Laboratory	1(0-3-0)
308453	Elementary Particle Physics	3(3-0-6)	308474	Measuring Instruments and Process Control	3(3-0-6)
308454	Radiological Physics	3(3-0-6)	308475	Computer-Assisted Instruction for Physics	3(3-0-6)
308463	Quantum Mechanics II	3(3-0-6)	308481	Pollution Detection and Control	3(3-0-6)
308471	Communications Electronics	3(3-0-6)	308482	Biophysics	3(3-0-6)
308483	Atmospheric Physics	3(3-0-6)	308485	Solar Energy	3(3-0-6)
308381	Introduction to Environmental Sciences	3(3-0-6)	308486	Scientific Measurement and Instrumentation	3(3-0-6)
308382	Environmental Physics	3(3-0-6)			
308383	Introduction to Air Pollution	3(3-0-6)			
308384	Introduction to Remote Sensing	3(3-0-6)			

308487	Scientific Measurement and Instrumentation Laboratory 1(0-3-0)	
308488	Energy Technology 3(3-0-6)	
308489	Energy Conservation Technology 3(3-0-6)	
308496	Selected Topics in Physics 3(3-0-6)	
3. Free Elective Courses	6 credits	
Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand And abroad to complete the graduation requirement.		

Bachelor of Science Program in Statistics

Courses Structure

Students are required to take a minimum of 130 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology Group	3 credits
- Interdisciplinary Integration Group	9 credits
Elective Courses	4 credits
2. Area of Concentration Course	94 credits

- Core Courses	29 credits
- Professional Courses	15 credits
- Major Courses	50 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)
Professional English	6 credits
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	
310101 Computer and the Internet	3(2-2-5)
Interdisciplinary Integration Group	9 credits
999101 Interdisciplinary Integration I	3(3-0-6)
999102 Interdisciplinary Integration II	3(3-0-6)
999103 Interdisciplinary Integration III	3(3-0-6)
Elective Courses	4 credits
203103 Contemporary World Affairs	2(2-0-4)

216101	Speech for Effective Communication	2(2-0-4)	Major Courses	50 credits
222102	Personality and Self Development	2(2-0-4)	Major Required Courses	22 credits
226101	General Economics	2(2-0-4)	312211	Statistical Methods 3(3-0-6)
230101	General Knowledge on Business	2(2-0-4)	312321	Mathematical Statistics I 3(3-0-6)
501102	Safety in Everyday Life	2(2-0-4)	312322	Mathematical Statistics II 3(3-0-6)
2. Area of Concentration Courses		94 credits	312341	Sampling Techniques 3(3-0-6)
	Core Courses	29 credits	312342	Experimental Designs 3(3-0-6)
301301	Quality Management	2(2-0-4)	312343	Regression Analysis 3(3-0-6)
302111	Calculus I	3(3-0-6)	312351	Operation Research I 3(3-0-6)
302112	Calculus II	3(3-0-6)	312491	Seminar in Statistics 1(0-2-1)
303101	Chemistry I	3(3-0-6)	Major Elective Courses	28 credits
303102	Chemistry II	3(3-0-6)	312331	Probability and Its Applications
303103	Chemistry Laboratory	1(0-3-0)	312344	Quality Control 3(3-0-6)
306101	General Biology I	3(3-0-6)	312345	Non-Parametric Statistics 3(3-0-6)
306102	General Biology Laboratory I	1(0-3-0)	312346	Decision Theory 3(3-0-6)
308101	Introductory Physics I	3(3-0-6)	312347	Time Series and Index Numbers 3(3-0-6)
308102	Introductory Physics II	3(3-0-6)	312348	Applied Stochastic Processes 3(3-0-6)
308103	Introductory Physics Laboratory I	1(0-3-0)	312352	Operation Research II 3(3-0-6)
312201	Elementary Statistics	3(3-0-6)	312353	Applied Stochastic Processes 3(3-0-6)
	Professional Courses	15 credits	312354	Linear Programming 3(3-0-6)
302221	Calculus III	3(3-0-6)	312355	Non-Linear Programming 3(3-0-6)
302241	Principles of Mathematics	3(3-0-6)	312361	Statistical Information Technology 3(2-2-5)
302362	Applied Mathematics	3(3-0-6)	312371	Data Analysis Techniques 3(2-2-5)
302232	Linear Algebra I	3(3-0-6)	312372	Statistical Computing 3(2-2-5)
310221	Fortran Programming	3(2-2-5)	312456	Simulation 3(3-0-6)
			312457	Forecasting Techniques 3(3-0-6)
			312462	Statistics of Insurance 3(3-0-6)

312373	Research Methodology	3(3-0-6)
312492	Selected Topics in Statistics I	3(3-0-6)
312493	Selected Topics in Statistics II	3(3-0-6)
312494	Special Problems	2(0-6-0)
302202	Mathematical Computing	2(1-2-3)
302372	Mathematical Analysis	3(3-0-6)
302382	Mathematics of Finance	3(3-0-6)
302383	Mathematics of Insurance	3(3-0-6)
302452	Probability Theory	3(3-0-6)
302473	Numerical Analysis I	3(3-0-6)
310211	Computer Programming	3(2-2-5)
310214	Data Structure and Algorithms	3(3-0-6)
310222	C Programming	3(2-2-5)
310281	Application Software in Office	3(2-2-5)
310312	System Analysis and Design	3(3-0-6)
310321	Visual BASIC Programming	3(2-2-5)
310341	Database System	3(3-0-6)
310371	Internet Technology	3(3-0-6)
310471	Electronics Commerce	3(3-0-6)
321342	Management Information Systems	3(3-0-6)
321442	Office Information Systems	3(3-0-6)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Science Program in Aquaculture (Continuing Program)

Courses Structure

Students are required to take a minimum of 74 credits from the following sections:

1. General Education Courses 10 credits

- Languages Group 6 credits
- Humanities Group 2 credits
- Sociology Group 2 credits

2. Area of Concentration Courses

58 credits

- Professional Courses 13 credits
- Major Courses 47 credits

3. Free Elective Courses 6 credits

1. General Education Courses 10 credits

Language Group 6 credits

212205 English for Science and
Technology I 3(2-2-5)

212206 English for Science and
Technology II 3(2-2-5)

Humanities Group 2 credits

204100 Ethics in Everyday Life 2(2-0-4)

Sociology Group	2 credits	Major Elective Courses	8 credits
230101 General Knowledge on Business	2(2-0-4)	322302 Planktonology	3(2-3-4)
2. Area of Concentration Courses	58 credits	322303 Marine Microbiology	3(2-3-4)
Professional Courses	13 credits	322311 Aquatic Plants	3(2-3-4)
301301 Quality Management	2(2-0-4)	322312 Phycology	3(2-3-4)
305102 General Microbiology	2(2-0-4)	322322 Aquatic Vertebrates	3(2-3-4)
310101 Computer and the Internet	3(3-0-6)	322352 Fishing Gears	2(1-3-2)
312201 Elementary Statistics	3(3-0-6)	322361 Marine Ecology	3(2-3-4)
312202 Biostatistics	3(3-0-6)	322404 Marine Biotoxins	3(3-0-6)
Major Courses	45 credits	322421 Physiology of Aquatic Animals	3(2-3-4)
Major Required Courses	37 credits	322422 Embryology of Aquatic Animals	3(2-3-4)
322211 Aquatic Ecology	3(3-2-4)	322423 Fish Physiology	3(3-0-6)
322241 Introduction to Oceanography	3(3-0-6)	322432 Chemistry and Treatment of Wastewater	3(2-3-4)
322251 Introduction to Fisheries Technology	3(3-0-6)	322453 Fisheries Products Technology	3(2-3-4)
322301 Aquatic Animal Genetics	3(3-0-6)	322462 Aquatic Pollution	3(3-0-6)
322371 Aquaculture	3(3-0-6)	322463 Aquatic Resources Management	3(3-0-6)
322372 Food of Aquatic Animals	3(3-2-4)	322464 Integrated Coastal Zone Management	3(3-0-6)
322425 Diseases and Pathology of Aquatic Animals	3(3-2-4)	322465 Selected Topics in Coastal Environment	3(3-0-6)
322431 Water Quality Analysis	3(3-2-4)	322475 Mollusk Aquaculture	3(2-3-4)
322471 Aquatic Animal Breeding	3(3-0-6)	322476 Crustacean Aquaculture	3(2-3-4)
322472 Laboratory in Aquatic Animal Breeding	2(0-6-0)	322477 Coastal Aquaculture	3(3-0-6)
322473 Aquatic Animal Farm Management	2(2-0-4)	322478 Laboratory in Coastal Aquaculture	2(0-6-0)
322474 Aquaculture Business	3(3-0-6)		
322491 Seminar in Aquaculture	1(0-2-1)		
322492 Special Problems in Aquaculture	2(0-6-0)		

322479	Ornamental and Aquarium Fish Aquaculture	3(3-0-6)
322482	Laws of the Sea	2(2-0-4)
322483	Scuba Diving	2(1-3-2)
322493	Aquaculture Biotechnology	3(3-0-6)
322494	Selected Topics in Aquaculture I	3(3-0-6)
322495	Selected Topics in Aquaculture II	3(3-0-6)
3. Free Elective Courses		6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

**Bachelor of Science Program in
Physics-Instruments
(Continuing Program)**

Courses Structure

Students are required to take a minimum of 75 credits from the following

Sections:

1. General Education Courses	12 credits
- Languages Group	6 credits
- Humanities Group	4 credits
- Sociology Group	2 credits

2. Area of Concentration	57 credits
- Professional Courses	5 credits
- Major Courses	52 credits
3. Free. Elective Courses	6 credits
1. General Education Courses	12 credits
Language Group	6 credits
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
Humanities Group	4 credits
202101 Information Services and Study Fundamentals	2(2-0-4)
222102 Personality and Self Development	2(2-0-4)
Sociology Group	2 credits
230101 General Knowledge on Business	2(2-0-4)
2. Area of Concentration Courses	57 credits
Professional Courses	5 credits
301301 Quality Management	2(2-0-4)
303104 General Chemistry	3(3-0-6)
Major Required Courses	46 credits
320301 Basics Physics for Instruments I	2(2-0-4)
320302 Basics Physics for Instruments II	2(2-0-4)
320303 Basics Physics for Instruments Laboratory	1(0-3-0)
320321 Thermodynamics	2(2-0-4)

320331	Computer Programming for Instrument	2(1-2-3)	Major Elective Courses	6 credits
320341	Electricity and Magnetism	3(3-0-6)	320373	Digital Electronics 3(3-0-6)
320342	Electrical Circuit Analysis	3(3-0-6)	320354	Numerical Computation for Instruments 3(3-0-6)
320351	Fundamentals of Mathematical Physics for Instruments	2(2-0-4)	320444	Microwave Technology 3(3-0-6)
320352	Mathematical Physics for Instruments I	3(3-0-6)	320464	Principles of Instrumental Analysis 3(3-0-6)
320353	Mathematical Physics for Instruments II	3(3-0-6)	320465	Instrumental Analysis Laboratory 1(0-3-0)
320371	Elementary Electronics for Instruments	3(3-0-6)	320466	Computer Control and Industrial Applications 3(3-0-6)
320372	Elementary Electronics for Instruments Laboratory	1(0-3-0)	320467	Computer Control and Industrial Applications Laboratory 1(0-3-0)
320411	Fluid Physics and Heat Transfer	2(2-0-4)	320476	Industrial Electronics 3(3-0-6)
320443	Physics of Wave	3(3-0-6)	320477	Industrial Electronics Laboratory 1(0-3-0)
320461	Measurement and Sensors	3(3-0-6)	320478	Semiconductor Devices 3(3-0-6)
320462	Measurement and Sensors Laboratory	1(0-3-0)	320481	Signal Processing 3(3-0-6)
320463	Process Control	3(3-0-6)	320482	Mechatronics 3(3-0-6)
320464	Scientific Instruments	2(2-0-4)	320483	Hydraulics and Pneumatics 3(3-0-6)
320474	Microcontroller and Applications	3(3-0-6)	320484	Selected Topics in Instruments 3(3-0-6)
320475	Microcontroller and Applications Laboratory	1(0-3-0)	320492	Instrumental Physics Projects 3(3-0-6)
320491	Seminar	1(0-2-1)	3. Free Elective Courses	6 credits

Students may take at least 6 credits as free elective credits from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

Bachelor of Technology Program in

Information Technology

(Continuing Program)

Courses Structure

Students are required to take a minimum of 74 credits from the following sections:

1. General Education Courses 12 credits
 - Languages Group 6 credits
 - Elective Courses 6 credits
 2. Area of Concentration Courses 56 credits
 - Major Professional Courses 8 credits
 - Major Courses 48 credits
 3. Free Elective Courses 6 credits
- 1. General Education Courses 10 credits**
- Language Group 6 credits**
- 212205 English for Science and Technology I 3(2-2-5)
- 212206 English for Science and Technology II 3(2-2-5)
- Humanities Group 4 credits**
- 202101 Information Service and Study Fundamentals 2(2-0-4)
- 216101 Speech for Effective Communication 2(2-0-4)
- Sociology Group 2 credits**
- 230101 General Knowledge on Business 2(2-0-4)

2. Area of Concentration Courses

56 credits

Major Professional Courses 8 credits

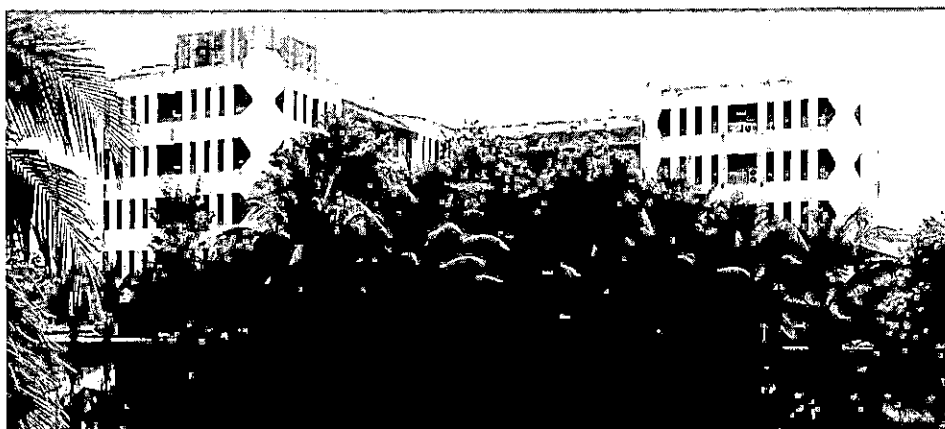
- 301301 Quality Management 2(2-0-4)
- 302118 Introduction to Calculus 3(3-0-6)
- 312201 Elementary Statistics 3(3-0-6)

Major Courses 48 credits

Major Required Courses 33 credits

- 310211 Computer Programming 3(2-2-5)
- 310213 Discrete Structures 3(3-0-6)
- 310214 Data Structures and Algorithms 3(3-0-6)
- 310312 System Analysis and Design 3(3-0-6)
- 310313 Software Engineering 3(3-0-6)
- 310324 Object-Oriented Programming 3(3-0-6)
- 310341 Database Systems 3(3-0-6)
- 321311 Computer Technology 3(3-0-6)
- 321341 Information Systems Concepts 3(3-0-6)
- 321441 Management of Information Technology 3(3-0-6)
- 321491 Seminar in Information Technology 1(0-2-1)
- 321492 Projects in Information Technology 2(0-6-0)
- Major Elective Courses 15 credits**
- 310311 Information Storage and Retrieval 3(3-0-6)
- 310331 Operating Systems 3(3-0-6)
- 310352 Introduction to Artificial Intelligence 3(3-0-6)

310353	Knowledge-Base Systems	3(3-0-6)	321444	Accounting Information Systems	
310361	Data Communications and Computer Network I	3(3-0-6)			3(3-0-6)
310371	Internet Technology	3(3-0-6)	321445	Financial Information Systems	
310372	Internet Information Services				3(3-0-6)
		3(3-0-6)	321446	Decision Support Systems	3(3-0-6)
310411	Object-Oriented Analysis and Design	3(3-0-6)	321481	Operation Management Information Center	3(3-0-6)
310434	System Administration	3(3-0-6)	321482	Information Technology Project Management	3(3-0-6)
310455	Expert Systems	3(3-0-6)	321483	Multimedia Technology Presentation	
310461	Data Communications and Computer Network II	3(3-0-6)			3(2-2-5)
310462	Network Management	3(3-0-6)	321493	Selected Topics in Information Technology I	3(3-0-6)
310471	Electronics Commerce	3(3-0-6)	321494	Selected Topics in Information Technology II	3(2-2-5)
321342	Management Information Systems				
		3(3-0-6)			
321412	The Human Computer Interaction		3. Free Elective Courses		6 credits
		3(3-0-6)		Students may take at least 6 credits	
321413	Software metrics	3(3-0-6)		as free elective credits from courses provided	
321414	Interface Design	3(3-0-6)		at Burapha University or other universities	
321442	Office Information Systems	3(3-0-6)		both in Thailand and abroad to complete the	
321443	Information Technology Law			graduation requirement.	
		3(3-0-6)			





คณะวิทยาศาสตร์
FACULTY OF SCIENCE



COLLEGE OF THE MARITIME
MARITIME COLLEGE

Maritime College

Maritime College

Bachelor of Science Program in Nautical Science

Courses Structure

Students are required to take a minimum of 170 credits from the following sections:

1. General Education Courses 34 credits
 - Language Group 10 credits
 - Sciences and Mathematics 10 credits
 - Sociology Group 6 credits
 - Humanities Group 6 credits
 - Physical Education 2 credits
 2. Area of Concentration 130 credits
 - Professional Courses 34 credits
 - Major Courses 96 credits
 3. Free Elective Courses 6 credits
- 1. General Education Courses 34 credits**
- Languages Group 11 credits**
- 212101 English I 3(3-0-6)
- 212102 English II 3(3-0-6)
- 252201 English for Academic Purposes I 2(2-0-4)
- 252202 English for Academic Purposes II 2(2-0-4)
- Sciences and Mathematics 10 credits**
- 302111 Calculus I 3(3-0-6)
- 302112 Calculus II 3(3-0-6)

- 303101 General Chemistry I 3(3-0-6)
- 303104 General Chemistry Laboratory I 1(0-3-0)

- Sociology Group 6 credits**
- 224102 Introduction to Law 2(2-0-4)
- 226101 Introduction to Economics 2(2-0-4)
- 230101 Introduction to Business 2(2-0-4)

- Humanities Group 6 credits**
- 202101 Information Services and Study Fundamentals 2(2-0-4)
- 204100 Ethics in Everyday Life 2(2-0-4)
- 601141 Man and Aesthetics 2(2-0-4)

- Physical Education 2 credits**
- 441112 Swimming I 1(0-2-1)
- 441113 Basketball I 1(0-2-1)
- 441115 Football I 1(0-2-1)
- 441118 Tennis I 1(0-2-1)
- 441212 Rhythmic Activities 1(0-2-1)
- 441215 Minor Games 1(0-2-1)
- 441219 Social Dance 1(0-2-1)
- 441312 Swimming II 1(0-2-1)
- 441414 Wind Surf 1(0-2-1)
- 441415 Sailing 1(0-2-1)

- 2. Area of Concentration Courses 130 credits**
- Professional Courses 34 credits**
- 212231 Oral English Practice 2(1-2-3)
- 212331 Oral English I 2(1-2-3)
- 212473 English for Maritime Trade I 2(1-2-3)

212474	English for Maritime Trade II	2(1-2-3)	908331	Meteorology	3(3-0-6)
			908341	Oceanography	3(3-0-6)
212475	English for Maritime Trade III	2(1-2-3)	910311	Cargo Handling and Stowage I	3(3-0-6)
302215	Calculus III	3(3-0-6)	910412	Cargo Handling and Stowage II	3(3-0-6)
308101	Introductory Physics I	3(3-0-6)	910413	Cargo Handling and Stowage Practice	1(0-3-0)
308102	Introductory Physics II	3(3-0-6)	911311	Communications I	3(3-0-6)
308103	Introductory Physics Laboratory I	1(0-3-0)	911312	Communications II	3(2-3-4)
308371	Elementary Electronics	3(3-0-6)	912211	Navigation I	3(2-2-5)
308372	Elementary Electronics Laboratory	1(0-3-0)	912212	Navigation II	3(3-0-6)
310101	Computer and Information Processing	3(3-0-6)	912313	Navigation III	3(2-2-5)
312201	Elementary Statistics	3(3-0-6)	912314	Navigation IV	2(1-2-3)
505101	Engineering Workshop Practice	1(0-3-0)	912415	Navigation V	3(2-2-5)
510371	Automatic Control I	3(3-0-6)	912416	Navigation VI	2(1-2-3)
	Major Courses	96 credits	912517	Navigation VII	3(2-2-5)
901311	Maritime Law	3(3-0-6)	912518	Navigation VIII	2(2-0-4)
901421	Introduction to Law of the Sea	3(3-0-6)	912421	Ship Handling I	2(2-0-4)
901341	Marine Insurance	3(3-0-6)	912522	Ship Handling II	2(2-0-4)
901431	Watchkeeping I	3(2-3-4)	913311	Ship Propulsion	3(3-0-6)
901432	Watchkeeping II	3(2-3-4)	913312	Marine Engineering	2(1-2-3)
903301	Shipping Management	3(3-0-6)	914411	Ship Design Technology	3(3-0-6)
906311	Seamanship	2(1-3-2)	914421	Shipbuilding Technology	3(3-0-6)
906422	Emergency Procedures and Damage Control	3(3-0-6)	914431	Ship Stability I	3(3-0-6)
			914432	Ship Stability II	3(3-0-6)
			915511	Cargo Ship Practice I	6(0-30-0)
			915512	Cargo Ship Practice II	6(0-30-0)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective from provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

**Bachelor of Business Administration
Program in Maritime Management
(Continuing Program)**

Courses Structure

The students are required to take a minimum of 135 credits from the following section.

1. General Education Courses

13 credits

- Languages Group 3 credits
- Mathematics and Computer 6 credits
- Sociology Group 2 credits
- Humanities 2 credits

2. Area of Concentration 55 credits

- Required Courses 46 credits
- Elective Courses 9 credits

3. Free Elective Courses 6 credits

1. General Education Courses 13 credits

Language Group 3 credits

212201 English for Humanities and
Social Science I 3(2-2-5)

Mathematics and Computer Group

6 credits

302118 Introduction to Calculus 3(3-0-6)

310101 Computer and the Internet 3(2-2-5)

Sociology Group 2 credits

226101 General Economic 2(2-0-4)

202101 Information Services and
Study Fundamental 2(2-0-4)

2. Professional Courses 55 credits

Required Courses 46 credits

212371 Business English 2(2-0-4)

212473 English for Maritime
Trade I 2(1-2-3)

227211 Business Finance 3(3-0-6)

229212 Financial Accounting 3(2-2-5)

230221 Principles of Management 3(3-0-6)

230212 Business Law 3(3-0-6)

901311 Maritime Law 3(3-0-6)

901331 Taxation and Customs
Management 3(3-0-6)

901341 Marine Insurance 3(3-0-6)

902311 Maritime Economics 3(3-0-6)

903311 Introduction to Maritime
Business 3(3-0-6)

903312 Business Transaction in
Shipping Management 3(3-0-6)

903321 Introduction to International
Business 3(3-0-6)

904311 Port Management 3(3-0-6)

904321 Logistics and Transportation
Management 3(3-0-6)

905411	Cargo Ships and their Characteristics I	3(3-0-6)
Elective Courses		9 credits
309202	Marine Environment	2(2-0-4)
901421	Introduction to Law of the Sea	3(3-0-6)
903313	Charter Parties Business	2(2-0-4)
903314	History of Thai Maritime Business	2(2-0-4)
903321	Marine Cargo Operations	2(2-0-4)
903431	Human Resource Management	3(3-0-6)
904312	Port Operation	2(2-0-4)
904422	Logistics and Supply Chain Management	2(2-0-4)
905412	Cargo Ships and Their Characteristics II	3(3-0-6)
905413	Maritime Information Technology	2(2-0-4)

905421	Maritime Electronic Commerce	2(2-0-4)
906421	International Safety Management	3(3-0-6)
908421	Selected Topics in Maritime Business	2(2-0-4)
212474	English for Maritime Trade II	2(1-2-3)
212475	English for Maritime Trade III	2(1-2-3)
310381	Computer in Business	3(2-2-5)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective from provided at Burapha University or other universities both in Thailand and aboard to complete the graduation requirement.



Chantaburi Campus



Faculty of Marine Technology

Faculty of Marine Technology

Bachelor of Science Program

Courses Structure

Students are required to take a minimum of 140 credits from the following sections:

1. General Education Courses	32 credits
- Language Group	12 credits
- Sciences and Mathematics	10 credits
- Sociology Group	4 credits
- Humanities Group	6 credits
2. Area of Concentration	102 credits
- Core Courses	25 credits
- Professional Courses	20 credits
- Major Courses	57 credits
3. Free Elective Courses	6 credits
4. Training Courses	200 hours
1. General Education Courses	32 credits
Languages Group	12 credits
251101 Thai I	2(2-0-4)
252101 English I	3(3-0-6)
252102 English II	3(3-0-6)
252201 English for Academic Purposes I	2(2-0-4)
252202 English for Academic Purposes II	2(2-0-4)

	Science and Mathematics	10 credits
271111	Calculus I	3(3-0-6)
273101	General Biology I	3(3-0-6)
273102	General Biology Laboratory I	1(0-3-0)
290101	Computer and Information Processing	3(3-0-6)
	Sociology Group	4 credits
265101	Introduction to Economics	2(2-0-4)
269101	Introduction to Business	2(2-0-4)
	Humanities Group	6 credits
255101	Information Services and Study Fundamentals	2(2-0-4)
257100	Ethics in Everyday Life	2(2-0-4)
259141	Man and Aesthetics	2(2-0-4)
	2. Area of Concentration Courses	102 credits
	Core Courses	25 credits
270310	Quality Management	2(2-0-4)
271112	Calculus II	3(3-0-6)
272101	Chemistry I	3(3-0-6)
272102	Chemistry II	3(3-0-6)
272103	Chemistry Laboratory	1(0-3-0)
273103	General Biology II	3(3-0-6)
274101	Introductory Physics I	3(3-0-6)
274102	Introductory Physics II	3(3-0-6)
274103	Introductory Physics Laboratory I	1(0-3-0)
275201	Elementary Statistics	3(3-0-6)

Professional Courses	20 credits	Elective Major Subjects	27 credits
272220 Organic Chemistry	3(3-0-6)	Students are required to take a minimum of 18 credits from the one group (Marine Science, Aquaculture, Coastal Resources and Environmental Management or Fisheries Technology) and take a minimum of 9 credits from other groups.	
272221 Organic Chemistry Laboratory	1(0-3-0)		
272350 Analytical Chemistry	3(3-0-6)		
272351 Analytical Chemistry Laboratory	2(0-6-0)		
275202 Biostatistics	3(3-0-6)		
276201 General Biochemistry	3(3-0-6)	Marine Science	
276202 General Biochemistry Laboratory	1(0-3-0)	801301 Underwater Operation	2(1-3-2)
277201 Introductory Microbiology	4(3-3-6)	801302 Technology of Marine Survey (Archeology)	2(1-3-2)
Major Courses			
57 credits			
Major Subjects			
30 credits			
801406 Seminar in Marine Technology	1(0-2-1)	802304 Marine Biochemistry	3(3-0-6)
801407 Special Problems in Marine Technology	2(0-6-0)	802305 Aquatic Geochemistry	3(3-0-6)
802201 Oceanography	3(3-0-6)	802306 Aquatic Geology	3(3-0-6)
802302 Technique in Water Quality Analysis	3(2-3-4)	821303 Aquatic Microbiology	3(2-3-4)
807405 Marine Resources Management	3(3-0-6)	821304 Marine Biotoxins	3(3-0-6)
813201 Introduction to Aquaculture Technology	3(3-0-6)	821305 Biology of Plankton	3(2-3-4)
816204 Introduction to Marine Technology	3(3-0-6)	822301 Phycology	3(2-3-4)
821201 General Physiology	3(3-0-6)	823301 Physiology of Marine Animals	3(2-3-4)
821202 Introduction to Marine Biology	3(2-3-4)	823302 Biology of Fish	3(2-3-4)
824201 General Ecology	3(2-3-4)	823303 Carcinology	3(2-3-4)
824302 Marine Ecology	3(2-3-4)	823304 Malacology	3(2-3-4)
		823305 Maine Invertebrate	4(3-3-6)
		823306 Marine Vertebrate	3(2-3-4)
		Aquaculture	
		811301 Aquaculture Engineering I	3(2-3-4)
		811302 Aquaculture Engineering II	3(2-3-4)
		811303 Aquaculture Engineering III	3(2-3-4)
		811304 Shrimp Pond Dynamic	3(3-0-6)
		811305 Aquaculture Business	3(3-0-6)
		811306 Aquatic Animals Nutrition	3(2-3-4)

811307	Genetics of Aquatic Animals	3(3-0-6)	806301	Selected Topics in Coastal Resources and Environmental Management I	3(3-0-6)
812303	Sea Farming and Coastal Aquaculture	3(3-0-6)	806302	Selected Topics in Coastal Resources and Environmental Management II	3(3-0-6)
812304	Laboratory in Sea farming and Coastal Aquaculture	3(3-0-6)	806303	marine Resource Recreation	2(2-0-4)
812305	Marine Aquarium	2(1-3-2)	807301	Geographic Information System for Coastal Resource Management	3(3-0-6)
812306	Integrated Farming of Aquatic Animals	3(3-0-6)	807302	Geographic Information System for Coastal Resource Management Laboratory	2(0-6-0)
813302	Aquatic Animal Breeding Technology	3(3-0-6)	807303	Environmental Impact Assessment I	3(3-0-6)
813303	Laboratory in Aquatic Animal Breeding Technology	2(0-6-0)	807304	Environmental Impact Assessment II	2(2-0-4)
813304	Technology of Aquatic Farm Management	2(2-0-4)	807305	Environmental Impact Assessment Laboratory II	1(0-3-0)
813305	Technology of Plankton Culture	3(3-0-6)	807306	Coastal Environmental Impact Assessment	3(3-0-6)
813401	Selected Topics in Aquaculture I	3(3-0-6)	807307	Principles of Integrated Coastal Zone Management	3(3-0-6)
813402	Selected Topics in Aquaculture II	3(3-0-6)	808301	Marine Resources Conservation	3(3-0-6)
822302	Economic Aquatic Plants	3(2-3-4)	808302	Marine Ecotourism	2(2-0-4)
823307	General Disease and Pathology of Aquatic Animals	3(2-3-4)	809301	Natural Resource Economic	3(3-0-6)
823308	Embryology of Marine Animals	3(2-3-4)	809302	Coastal Socioeconomics	3(3-0-6)
	Coastal Resources and Environmental Management		821306	Estuarine Biology	3(3-0-6)
802303	wastewater Treatment	3(2-3-4)	821307	Coral Biology	3(3-0-6)
802307	Marine Pollution	3(3-0-6)	824303	Mangrove Ecology	3(3-0-6)
802308	Human Ecology	3(3-0-6)			

Fisheries Technology		
801303	Introduction to Law of the Sea	2(2-0-4)
801304	Principles of Navigation	3(2-3-4)
801305	Introduction to Fisheries and Environmental Law	2(2-0-4)
807309	Remote Sensing Techniques for Marine Resources Survey	3(3-0-6)
807310	Laboratory in Remote Sensing Techniques for Marine Resources Survey	2(0-6-0)
809303	Fishery Economics	3(3-0-6)
816301	Fisheries Technology I	3(3-0-6)
816302	Fisheries Technology II	3(3-0-6)
816303	Fisheries Product Technology	3(2-3-4)
816305	Seafood Business	2(2-0-4)

816306	Fisheries Population Dynamic	3(3-0-6)
816307	Shell Fisheries	3(3-0-6)
817301	Selected Topics in Marine Fisheries I	2(2-0-4)
817302	Selected Topics in Marine Fisheries II	2(2-0-4)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

4. Training Courses 200 hours

Students are required to take a minimum of 200 training hours.





Faculty of Science and Liberal Arts

Faculty of Science and Liberal Arts

Bachelor of Science Program in

Computer Information System

Courses Structure

Students are required to take a minimum of 138 credits from the following sections:

1. General Education Courses 30 credits
 - Language Group 14 credits
 - Sociology Group 8 credits
 - Humanities Group 8 credits
 2. Area of Concentration 102 credits
 - Core Courses 25 credits
 - Professional Courses 20 credits
 - Major Courses 63 credits
 3. Free Elective Courses 6 credits
- 1. General Education Courses 32 credits**
- Languages Group 12 credits**
- 251101 Thai I 2(2-0-4)
- 252101 English I 3(3-0-6)
- 252102 English II 3(3-0-6)
- 252201 English for Academic Purposes I
2(2-0-4)
- 252202 English for Academic Purposes II
2(2-0-4)
- 252231 Oral English Practice 2(1-2-3)

Humanities Group 6 credits

- 255101 Information Services and Study
Fundamentals 2(2-0-4)
- 257100 Ethics in Everyday Life 2(2-0-4)
- 258101 Speech training 2(2-0-4)
- 259141 Man and Aesthetics 2(2-0-4)

Sociology Group 8 credits

- 265101 Introduction to Economics 2(2-0-4)
- 269101 Introduction to Business 2(2-0-4)

And select from the following list:

- 260101 Psychology in Everyday Life
2(2-0-4)
- 261102 Man and His Natural Resource
and Environmental 2(2-0-4)
- 262101 Man and Politics 2(2-0-4)
- 262102 Introduction to Law 2(2-0-4)
- 262104 Dynamics of World Affairs 2(2-0-4)
- 263100 Man, Society and Culture 2(2-0-4)
- 263101 Introduction to Sociology 2(2-0-4)
- 2. Area of Concentration Courses 102 credits**
- Core Courses 27 credits**
- 270301 Quality Management 2(2-0-4)
- 271111 Calculus I 3(3-0-6)
- 271112 Calculus II 3(3-0-6)
- 272104 General Chemistry 3(3-0-6)
- 273101 General Biology I 3(3-0-6)

274101	Introductory Physics I	3(3-0-6)	290361	Data Communication and	
274102	Introductory Physics II	3(3-0-6)		Computer Network I	3(3-0-6)
275201	Elementary Statistics	3(3-0-6)	290371	Internet Technologies	3(3-0-6)
290101	Computer and Information		290481	Information Center Management	
	Processing	3(3-0-6)			3(3-0-6)
	Professional Courses	20 credits	290491	Information System Seminar 1	0(2-6)
268202	Financial Accounting	3(2-2-5)	290492	Computer Information System	
269211	Principles of Management	3(3-0-6)		Project	2(0-6-0)
290112	Information System Concepts			Major Elective Courses	24 credits
		3(3-0-6)	264241	Principles of Marketing	3(3-0-6)
290215	Data Analysis	3(2-2-5)	266231	Business Finance	3(3-0-6)
	Major Required Courses	39 credits	268211	Accounting for Decision Making	
290211	Computer Programming	3(2-2-5)			3(3-0-6)
290213	Discrete Structures	3(3-0-6)	269212	Business Law	3(3-0-6)
290214	Data Structures and Algorithms		269213	Taxation	3(3-0-6)
		3(3-0-6)	269261	Human Resource Management	
290251	System Analysis and Design				3(3-0-6)
		3(3-0-6)	290321	Computer Organization and	
290316	Operating System Concepts	3(3-0-6)		Architecture	3(3-0-6)
290317	Software Engineering	3(3-0-6)	290322	Introduction to Artificial	
209324	Object-Oriented Programming			Intelligence	3(3-0-6)
		3(3-0-6)	290342	Management Information System	
290341	Database System	3(3-0-6)			3(3-0-6)
290353	Object-Oriented Analysis		290344	Decision Support Systems	3(3-0-6)
	and Design	3(3-0-6)			

290346 Theoretical Models of Decision Making 3(3-0-6)

290347 System Simulation and Modeling 3(3-0-6)

290352 Interface Design 3(3-0-6)

290363 LAN & Client/Server 3(3-0-6)

290371 Electronic Commerce 3(3-0-6)

290372 Inteneeet Information Service 3(3-0-6)

290382 Computer in Business 3(3-0-6)

290443 Office Information Systems 3(3-0-6)

290448 Knowledge-Base Systems 3(3-0-6)

290454 CASE: Computer Aid Software Engineering 3(3-0-6)

290462 Data Communication and Computer Network II 3(3-0-6)

290483 Software Project Management 3(3-0-6)

290493 Selected Topics in Computer Science I 3(3-0-6)

290494 Selected Topics in Computer Science II 3(2-2-5)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.



Gems College

Gems College

Bachelor of Business Administration

Program in Gems and Jewelry Business

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses	34 credits
- Language Group	12 credits
- Sciences and Mathematics	12 credits
- Sociology Group	4 credits
- Humanities Group	6 credits
2. Area of Concentration	95 credits
- Core Courses	29 credits
- Professional Courses	14 credits
- Major Courses	52 credits
3. Free Elective Courses	6 credits
4. Training Courses	150 hours
1. General Education Courses	31 credits
Languages Group	12 credits
251101 Thai I	2(2-0-4)
252101 English I	3(3-0-6)
252102 English II	3(3-0-6)
252201 English for Academic Purposes I	2(2-0-4)

252202 English for Academic Purposes II	2(2-0-4)
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Sciences and Mathematics 12 credits

271111 Calculus I	3(3-0-6)
271112 Calculus II	3(3-0-6)
273100 Biological Science	3(3-0-6)

290101 Computer and Information Processing	3(3-0-6)
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Sociology Group 4 credits

265101 Introduction to Economics	2(2-0-4)
269101 Introduction to Business	2(2-0-4)

Humanities Group 6 credits

255101 Information Services and Study Fundamentals	2(2-0-4)
257100 Ethics in Everyday Life	2(2-0-4)
259141 Man and Aesthetics	2(2-0-4)

2. Area of Concentration Courses 98 credits

Core Courses 29 credits

151101 Physical Geology	3(2-3-4)
152201 Mineralogy	3(2-3-4)
152202 Introduction to Gemstone	3(2-3-4)
180201 Materials Science I	3(3-0-6)
268201 Principle of Accounting	3(3-0-6)
269211 Principle of Business Administration	3(3-0-6)
270310 Quality Management	2(2-0-4)

272100	General Chemistry	3(3-0-6)		Major Elective Courses	36 credits
274111	General Physics	3(3-0-6)		154302	Gems Identification I 3(1-6-2)
275201	Elementary Statistics	3(3-0-6)		154303	Synthetic and Treated Gems
	Professional Courses	17 credits			Identification 3(2-3-4)
167301	Computer in Business	3(3-0-6)		155301	Diamond Grading 3(2-3-4)
170201	Gems and Jewelry Design I	3(2-2-5)		155302	Color Stones and Jewelry Grading
251102	Speech Training	2(2-0-4)			and Appraisal 3(2-3-4)
252231	Oral English Practice	2(1-2-3)		160404	Small and Medium Business
252321	Writing I	2(2-0-4)			Management 3(3-0-6)
252371	Business English	2(2-0-4)		162403	Promotion 3(3-0-6)
	Major Required Courses	36 credits		162404	Retailing Management 3(3-0-6)
154201	Gems Identification I	3(1-6-2)		162405	Product and Price Policies 3(3-0-6)
160302	Policy for Gems and Jewelry			165401	Human Resource Management
	Business	3(3-0-6)			3(3-0-6)
161401	Finance for Gems and Jewelry			166401	Introduction to International
	Business	3(3-0-6)			Business 3(3-0-6)
162301	Gems and Jewelry Marketing			166402	International Marketing 3(3-0-6)
		3(3-0-6)		167404	Selected Topics in Gems and
162302	Consumer Behavior	3(3-0-6)			Jewelry Business I 1(1-0-2)
163302	Managerial Accounting	3(3-0-6)		167405	Selected Topics in Gems and
164301	Business Law	3(3-0-6)			Jewelry Business II 1(1-0-2)
164302	Taxation for Gems and Jewelry			167406	Gems and Jewelry Electronic
	Business	3(3-0-6)			Commerce 2(2-0-4)
167302	Industrial Management	3(3-0-6)		3. Free Elective Courses	6 credits
167403	Project Management	3(3-0-6)			Students may take at least 6 credits
169401	Business Research Methodology				as free elective from courses provided at Burapha
		3(3-0-6)			University or other universities both in Thailand
169402	Seminar in Gems and Jewelry				and abroad to complete the graduation
	Business	3(3-0-6)			requirement.

4. Training Courses 150 hours

Students are required to take a minimum of 150 training hours.

Bachelor of Fine Art Program in Jewelry Design

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

- 1. General Education Courses 31 credits
 - Language Group 12 credits
 - Sciences and Mathematics 9 credits
 - Sociology Group 4 credits
 - Humanities Group 6 credits
 - 2. Area of Concentration 98 credits
 - Core Courses 29 credits
 - Professional Courses 17 credits
 - Major Courses 52 credits
 - 3. Free Elective Courses 6 credits
 - 4. Training Courses 150 hours
- 1. General Education Courses 31 credits**
- Languages Group 12 credits**
 - 251101 Thai I 2(2-0-4)
 - 252101 English I 3(3-0-6)
 - 252102 English II 3(3-0-6)

- 252201 English for Academic Purposes I 2(2-0-4)
 - 252202 English for Academic Purposes II 2(2-0-4)
 - Sciences and Mathematics 9 credits**
 - 271118 Introduction to Calculus 3(3-0-6)
 - 273100 Biological Science 3(3-0-6)
 - 290101 Computer and Information Processing 3(3-0-6)
 - Sociology Group 4 credits**
 - 265101 Introduction to Economics 2(2-0-4)
 - 269101 Introduction to Business 2(2-0-4)
 - Humanities Group 6 credits**
 - 255101 Information Services and Study Fundamentals 2(2-0-4)
 - 256100 Man and Civilization 2(2-0-4)
 - 257100 Ethics in Everyday Life 2(2-0-4)
- 2. Area of Concentration Courses 98 credits**
- Core Courses 29 credits**
 - 151101 Physical Geology 3(2-3-4)
 - 152201 Mineralogy 3(2-3-4)
 - 152202 Introduction to Gemstone 3(2-3-4)
 - 180201 Materials Science I 3(3-0-6)
 - 268201 Principle of Accounting 3(3-0-6)
 - 269211 Principle of Business Administration 3(3-0-6)
 - 270310 Quality Management 2(2-0-4)
 - 272100 General Chemistry 3(3-0-6)
 - 274111 General Physics 3(3-0-6)

275201	Elementary Statistics	3(3-0-6)
	Professional Courses	17 credits
162301	Gems and Jewelry Marketing	3(3-0-6)
171301	Compute-Aided Design for Jewelry	3(2-3-4)
173201	Aesthetics	3(3-0-6)
173211	Survey of Thai Arts	3(3-0-6)
173221	History of Arts	3(3-0-6)
174301	Exhibition and Presentation	2(1-2-3)
	Major Required Courses	44 credits
171201	Introduction to Drawing	2(1-3-2)
171211	Principle of Design	2(1-3-2)
171221	Introduction to Mechanical Drawing	2(1-3-2)
171331	Composition	2(1-3-2)
172201	Jewelry Design I	3(1-4-4)
172302	Jewelry Design II	3(1-4-4)
172303	Jewelry Design III	3(1-4-4)
172404	Jewelry Design IV	3(1-4-4)
172411	Jewelry Packaging Design	2(1-3-2)
172421	Costume Jewelry Design	3(1-4-4)
181201	Jewelry Making	2(1-3-2)
181302	Jewelry Mastering	2(1-3-2)
181303	Jewelry Casing	2(1-3-2)
181304	Plating and Enameling	2(1-3-2)
182301	Gems Cutting and Polishing	2(1-3-2)
182302	Colored Stone Setting	2(1-3-2)
190405	Individual Study	2(1-3-2)

190409	Art Thesis	5(0-15-0)
	Major Elective Courses	8 credits

154201	Gems Identification I	3(1-6-2)
154302	Gems Identification II	3(1-6-2)
165401	Human Resource Management	3(3-0-6)
167302	Industrial Management	3(3-0-6)
174411	Selected topics in Jewelry Design	2(1-2-3)
174412	Jewelry Design in Thai Traditional Art	3(2-3-4)
174413	Metal Work	2(1-3-2)
183401	Gems and Jewelry Quality Control	2(2-0-4)
189301	Industrial Safety	2(2-0-4)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

4. Training Courses 150 hours

The students are required to take a minimum of 150 training hours.

Bachelor of Science Program in Gemological Technology

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses	34 credits
- Language Group	12 credits
- Sciences and Mathematics	12 credits
- Sociology Group	4 credits
- Humanities Group	6 credits
2. Area of Concentration	95 credits
- Core Courses	29 credits
- Major Courses	66 credits
3. Free Elective Courses	6 credits
4. Training Courses	150 hours
1. General Education Courses	34 credits
Languages Group	12 credits
251101 Thai I	2(2-0-4)
252101 English I	3(3-0-6)
252102 English II	3(3-0-6)
252201 English for Academic Purposes I	2(2-0-4)
252202 English for Academic Purposes II	2(2-0-4)

	Sciences and Mathematics	12 credits
271111	Calculus I	3(3-0-6)
271112	Calculus II	3(3-0-6)
273100	Biological Science	3(3-0-6)
290101	Computer and Information Processing	3(3-0-6)
	Sociology Group	4 credits
265101	Introduction to Economics	2(2-0-4)
269101	Introduction to Business	2(2-0-4)
	Humanities Group	6 credits
255101	Information Services and Study Fundamentals	2(2-0-4)
257100	Ethics in Everyday Life	2(2-0-4)
259141	Man and Aesthetics	2(2-0-4)
	2. Area of Concentration Courses	95 credits
	Core Courses	29 credits
151101	Physical Geology	3(2-3-4)
152201	Mineralogy	3(2-3-4)
152202	Introduction to Gemstone	3(2-3-4)
180201	Materials Science I	3(3-0-6)
268201	Principle of Accounting	3(3-0-6)
269211	Principle of Business Administration	3(3-0-6)
270310	Quality Management	2(2-0-4)
272100	General Chemistry	3(3-0-6)
274111	General Physics	3(3-0-6)
275201	Elementary Statistics	3(3-0-6)

	Major Required Courses	54 credits		
153201	Crystallography and Optic Mineralogy	3(2-3-4)	274113	General Physics Laboratory 1(0-3-0)
171201	Gems and Jewelry Design I	3(2-2-5)	274301	Physics for Gems Technology I 3(3-0-6)
171301	Computer-Aided Design for Jewelry	3(2-3-4)	274302	Physics for Gems Technology II 2(2-0-4)
184301	Gems and Jewelry Laboratory	2(0-6-0)		Major Elective Courses 12 credits
190402	Seminar	1(0-2-1)	153302	Organic Gems 3(3-0-6)
190404	Special Problems	2(0-6-0)	154201	Gems Identification I 3(1-6-2)
271217	Calculus III	4(4-0-8)	154302	Gems Identification II 3(1-6-2)
272220	Organic Chemistry	3(3-0-6)	154303	Synthetic and Treated Gems Identification 3(2-3-4)
272230	Physical Chemistry	3(3-0-6)	155301	Diamond Grading 3(2-3-4)
272231	Physical Chemistry Laboratory	1(0-3-0)	155302	Colored Stone and Jewelry Grading and Appraisal 3(3-0-6)
272241	Inorganic Chemistry I	2(2-0-4)	161401	Finance for Gems and Jewelry Business 3(3-0-6)
272242	Inorganic Chemistry II	2(2-0-4)	162301	Gems and Jewelry Marketing 3(3-0-6)
272243	Inorganic Chemistry Laboratory	1(0-3-0)	164302	Taxation for Gems and Jewelry 3(3-0-6)
272250	Principles of Analytical Chemistry	2(2-0-4)	165401	Human Resource Management 3(3-0-6)
272251	Quantitative Analytical Chemistry Laboratory	1(0-3-0)	167302	Industrial Management 3(3-0-6)
272356	Instrumental Chemical Analysis	2(2-0-4)	166401	Introduction to International Business 3(3-0-6)
272357	Instrumental Chemical Analysis Laboratory	1(0-3-0)	166402	International Marketing 3(3-0-6)
272473	Applied Electrochemistry	3(2-5-6)	182403	Plastic Jewelry 3(3-0-6)
274112	General Physics II	3(3-0-6)	189301	Industrial Safety 2(2-0-4)

252001	German Language for Beginners I	2(2-0-4)
252002	German Language for Beginners II	2(2-0-4)
252003	Beginner's French Audio-Visual I	2(2-1-3)
252004	Beginner's French Audio-Visual II	2(2-1-3)
252231	Oral English Practice	2(1-2-3)
253101	Elementary Chinese I	3(3-2-5)
253102	Elementary Chinese II	3(3-2-5)
253103	Elementary Japanese I	3(3-2-5)
253104	Elementary Japanese II	3(3-2-5)
253105	Elementary Korean I	3(2-3-4)
253106	Elementary Korean II	3(2-3-4)
274303	Physics for Gems Technology III	3(3-0-6)
3. Free Elective Courses		6 credits

Students may take at least 6 credits as free elective from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

4. Training Courses 150 hours

Students are required to take a minimum of 150 training hours.

**Bachelor of Science Program in
Gems and Jewelry**

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses	34 credits
- Language Group	12 credits
- Sciences and Mathematics	12 credits
- Sociology Group	4 credits
- Humanities Group	6 credits
2. Area of Concentration	95 credits
- Core Courses	29 credits
- Major Courses	66 credits
3. Free Elective Courses	6 credits
4. Training Courses	150 hours
1. General Education Courses	34 credits
Languages Group	12 credits
251101 Thai I	2(2-0-4)
252101 English I	3(3-0-6)
252102 English II	3(3-0-6)
252201 English for Academic Purposes I	2(2-0-4)
252202 English for Academic Purposes II	2(2-0-4)

Sciences and Mathematics 12 credits			Major Required Courses 54 credits		
271111	Calculus I	3(3-0-6)	153201	Crystallography and Optic Mineralogy	3(2-3-4)
271112	Calculus II	3(3-0-6)	154201	Gems Identification I	3(1-6-2)
273100	Biological Science	3(3-0-6)	154302	Gems Identification II	3(1-6-2)
290101	Computer and Information Processing	3(3-0-6)	154303	Synthetic and Treated Gems Identification	3(2-3-4)
	Sociology Group 4 credits		155301	Diamond Grading	3(2-3-4)
265101	Introduction to Economics	2(2-0-4)	155302	Colored Stone and Jewelry Grading and Appraisal	3(2-3-4)
269101	Introduction to Business	2(2-0-4)	161401	Finance for Gems and Jewelry Business	3(3-0-6)
	Humanities Group 6 credits		162301	Gems and Jewelry Marketing	3(3-0-6)
255101	Information Services and Study Fundamentals	2(2-0-4)	180202	Materials Science II	3(3-0-6)
257100	Ethics in Everyday Life	2(2-0-4)	181201	Jewelry Making	2(1-3-2)
259141	Man and Aesthetics	2(2-0-4)	181302	Jewelry Mastering	2(1-3-2)
2. Area of Concentration Courses 95 credits			181303	Jewelry Casing	2(1-3-2)
	Core Courses 29 credits		181304	Plating and Enameling	2(1-3-2)
151101	Physical Geology	3(2-3-4)	182301	Gems Cutting and Polishing	2(1-3-2)
152201	Mineralogy	3(2-3-4)	182302	Colored Stone Setting	2(1-3-2)
152202	Introduction to Gemstone	3(2-3-4)	183401	Gems and Jewelry Quality Control	2(2-0-4)
180201	Materials Science I	3(3-0-6)	189301	Industrial Safety	2(2-0-4)
268201	Principle of Accounting	3(3-0-6)	190402	Seminar	1(0-2-1)
269211	Principle of Business Administration	3(3-0-6)	190403	Independent Study	1(0-2-1)
270310	Quality Management	2(2-0-4)			
272100	General Chemistry	3(3-0-6)			
274111	General Physics	3(3-0-6)			
275201	Elementary Statistics	3(3-0-6)			

Major Elective Courses		12 credits
153302	Organic Gems	3(3-0-6)
165401	Human Resource Management	3(3-0-6)
166401	Introduction to International Business	3(3-0-6)
166402	International Marketing	3(3-0-6)
170402	Gems and Jewelry Design II	3(2-2-5)
171301	Computer-Aided Design for Jewelry	3(2-3-4)
180303	Materials Science III	3(2-3-4)
182403	Plastic Jewelry	2(1-3-2)
252001	German Language for Beginners I	2(2-0-4)
252002	German Language for Beginners II	2(2-0-4)
252003	Beginner's French Audio-Visual I	2(2-1-3)

252004	Beginner's French Audio-Visual II	2(2-1-3)
252231	Oral English Practice	2(1-2-3)
253101	Elementary Chinese I	3(3-2-5)
253102	Elementary Chinese II	3(3-2-5)
253103	Elementary Japanese I	3(3-2-5)
253104	Elementary Japanese II	3(3-2-5)
253105	Elementary Korean I	3(2-3-4)
253106	Elementary Korean II	3(2-3-4)

3. Free Elective Courses 6 credits

Students may take at least 6 credits as free elective from courses provided at Burapha University or other universities both in Thailand and abroad to complete the graduation requirement.

4. Training Courses 150 hours

The students are required to take a minimum of 150 training hours.

Srakaew Campus



Faculty of Science

Faculty of Science

Bachelor of Technology Program in Business Computer

Courses Structure

Students are required to take a minimum of 135 credits from the following sections:

1. General Education Courses	30 credits
Required Courses	26 credits
- English Group	12 credits
- Thai Group	2 credits
- Information Technology	3 credits
- Humanities Group	8 credits
- Education Group	1 credits
Elective Courses	4 credits
2. Area of Concentration Courses	99 credits
- Core Courses	43 credits
- Major Required Courses	42 credits
- Major Elective Courses	14 credits
3. Free Elective Courses	6 credits
1. General Education Courses	30 credits
Required Courses	26 credits
English Group	12 credits
Basic English	6 credits
212101 English I	3(3-0-6)
212102 English II	3(3-0-6)
212103 English III	3(3-0-6)
212104 English IV	3(3-0-6)

Professional English	6 credits
212205 English for Science and Technology I	3(2-2-5)
212206 English for Science and Technology II	3(2-2-5)
Thai Group	2 credits
208101 Thai Language Skills	2(2-0-4)
Information Technology Group	3 credits
310101 Computer and the Internet	3(2-2-5)
Humanities	8 credits
202101 Information Service and Study Fundamentals	2(2-0-4)
204100 Ethics in Everyday Life	2(2-0-4)
216101 Speech for Effective Communication	2(2-0-4)
223102 Man and His Natural Resources and Environment	2(2-0-4)
Education Group	1 credits
441--- Physical Activity	1(0-2-1)
Elective Courses	4 credits
203103 Contemporary World Affairs	2(2-0-4)
216101 Speech for Effective Communication	2(2-0-4)
222102 Personality and Self Development	2(2-0-4)
226101 General Economics	2(2-0-4)

230101	General Knowledge on Business	2(2-0-4)	310361	Data Communications and Computer Networks I	3(3-0-6)
501102	Safety in Everyday Life	2(2-0-4)	310371	Internet Technology	3(3-0-6)
2. Area of Concentration Courses 96 credits			310372	Internet Information Services	3(3-0-6)
Core Courses		43 credits	310471	Electronic Commerce	3(3-0-6)
212317	Business English	2(2-0-4)	319211	Computer Programming for Business	3(2-2-5)
226211	Microeconomics I	3(3-0-6)	319331	Standardization on Hardware and Software	3(3-0-6)
226212	Microeconomics I	3(3-0-6)	319491	Seminar in Business Computer	1(0-2-1)
227211	Business Finance	3(3-0-6)	319492	Project in Business Computer	2(0-6-0)
228211	Principles of Marketing	3(3-0-6)	321341	Information System Concept	3(3-0-6)
229212	Financial Accounting	3(3-0-6)	Major Election Courses 14 credits		
230211	Business Law	3(3-0-6)	228212	Marketing Management	3(3-0-6)
230221	Principles of Management	3(3-0-6)	228221	Consumer Behavior	3(3-0-6)
230231	Taxation	3(3-0-6)	228331	Product and Price Policies	3(3-0-6)
230411	Business Statistics and Business Research Methodology	3(3-0-6)	228341	Wholesaling Management	3(3-0-6)
301301	Quality Management	2(2-0-4)	228342	Retailing Management	3(3-0-6)
302111	Calculus I	3(3-0-6)	228343	Purchasing Management	3(3-0-6)
302112	Calculus II	3(3-0-6)	228351	Advertising and Sales Promotion	3(3-0-6)
312201	Elementary Statistics	3(3-0-6)	228352	Sales Management	3(3-0-6)
Major Required Courses 42 credits			228361	International Marketing	3(3-0-6)
310211	Computer Programming	3(2-2-5)	228441	Marketing Channel and Physical Distribution Management	3(3-0-6)
310213	Discrete Structures	3(3-0-6)	230321	Quantitative Analysis in Management	3(3-0-6)
310214	Data Structures and Algorithms	3(3-0-6)			
310312	System Analysis and Design	3(3-0-6)			
310324	Object-Oriented Programming	3(2-2-5)			
310341	Database Systems	3(3-0-6)			

230421 Strategic Management 3(3-0-6)
 310311 Information Storage and Retrieval
 3(3-0-6)
 310313 Software Engineering 3(3-0-6)
 310331 Operating Systems 3(3-0-6)
 310332 Introduction to System
 Programming 3(3-0-6)
 310411 Object-Oriented Analysis
 and Design 3(3-0-6)
 310434 System Administration 3(3-0-6)
 310454 Systems Simulation and
 Modeling 3(3-0-6)
 310461 Data Communications and
 Computer Networks II 3(3-0-6)
 310462 Network Management 3(3-0-6)
 310482 Client-Server Computing 3(3-0-6)
 319321 Computer Models for Business
 Decision 3(3-0-6)
 319322 Decision Support Software 3(2-2-5)

319493 Selected Topics in Computer
 Business I 3(3-0-6)
 319494 Selected Topics in Computer
 Business II 3(3-0-6)
 321342 Management Information Systems
 3(3-0-6)
 321412 The Human Computer Interaction
 3(3-0-6)
 321442 Office Information Systems
 3(3-0-6)
 321483 Multimedia Technology
 Presentation 3(2-2-5)

3. Free Elective Courses 6 credits

Students may take at least 6 credits
 as free elective credits from provided at
 Burapha University or other universities both
 in Thailand and abroad to complete the
 graduation requirement.



Graduate School

Graduate School

Background

Created in 1977, the Graduate School offered only one program, a master's degree in education, with a major in biology. Since that time, more courses have been offered and enrollment has steadily increased to a current graduate population of approximately 2,500 students. The academic subjects taught at Burapha University fall within the areas of Business Administration, Education, Engineering, Humanities & Social Sciences, Nursing and Science.

Vision

Quality together with morality and academic leadership meeting international standards are products of the graduate school, Burapha university.

Mission

The main mission of the Graduate School, Burapha University is to develop policies, co-ordinate graduate studies, and encourage and monitor students in order to establish a reputation for the university and the country as a whole. Furthermore it wishes to produce individuals that are knowledgeable, competent, creative and moral with the ability to act as leaders both in the local community and internationally.

International links

Burapha University has developed a network of academic-cooperation linkages and academic cooperative exchange programs with several educational institutions in other countries throughout the world including Australia, Belgium, Canada, China, France, Germany, Japan, Kampuchea, Portugal, U.K., U.S.A., and Vietnam.

Admissions

Entrance Requirements

1. An applicant must have received a Bachelor Degree from an accredited institution.
2. An applicant must meet the requirement of the individual Faculties and/or Programs.

Admission is granted jointly by the Graduate School and the program in which the student plan to study. The program recommends admission to the Graduate School. The Graduate School monitors procedures, processes applications and makes the final decision on admission.

Faculty of Education

Graduate Diploma Program in Teaching

Courses Structure

Students are required to take a minimum of 26 credits from the following

Sections:

Required Courses 24 credits

Elective Courses 2 credits

Required Courses 24 credits

402571	Foundations of Thai Education	3(3-0-6)
404521	Foundation of Curriculum and Instruction	3(3-0-6)
404522	Teaching Behavior	3(1-4-4)
404524	Professional Experience	6(0-30-0)
415501	Psychology for Learning and Teaching	3(3-0-6)
423501	Media and Instructional Technology	3(2-2-5)
433501	Measurement and Evaluation in Education	3(3-0-6)
Elective Courses 2 credits		
401572	Ethics, Education and Profession	2(2-0-4)
404591	Independent Study	2(0-6-0)
415512	Psychology for Life and Work	2(2-0-4)
420510	Lifelong Education	2(2-0-4)
420543	Management of Local Educational Programs	2(2-0-4)

430514	Management System in Education	2(2-0-4)
436501	Computer Application for Education	2(2-0-4)

Master of Education Program in Curriculum and Instruction

Courses Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Plan A

Core Courses	8 credits
Major Required Courses	6 credits
Major Elective Courses	10 credits
Thesis	12 credits

Plan B

Core Courses	8 credits
Major Required Courses	6 credits
Major Elective Courses	10 credits
Substitute Courses for Thesis	12 credits

Major Required Courses 6 credits

409511	Curriculum Development and Implementation	2(2-0-4)
409521	Models of Teaching	2(2-0-4)
409681	Seminar in Problems and Research in Curriculum, Instruction or Supervision	2(2-0-4)

303423	Natural Product	2(2-0-4)	303482	Petroleum Chemistry	2(2-0-4)
303425	Organic Synthesis	2(2-0-4)	311401	Food Product Chemistry	2(2-0-4)
303427	Photochemistry	2(2-0-4)	Group 4 Teaching Biology		
303428	Organic Chemistry Laboratory III	2(0-6-0)	409582	Seminar in the Behavioral Aspects of Teaching Biology	2(2-0-4)
303429	Selected Topics in Organic Chemistry	2(2-0-4)	And select not less than eight credits from the following:		
303433	Quantum Chemistry	2(2-0-4)	306511	Biology of Cell and Molecule	3(3-0-6)
303435	Surface Chemistry	2(2-0-4)	306531	Advanced Animal Taxonomy	3(2-3-4)
303439	Selected Topics in Physical Chemistry	2(2-0-4)	306534	Animal Ecology	3(2-3-4)
303441	Inorganic Chemistry IV	2(2-0-4)	306536	Protozoology	3(2-3-4)
303442	Inorganic Chemistry Laboratory	1(0-3-0)	306537	Parasitology	3(2-3-4)
303443	Bioinorganic Chemistry	2(2-0-4)	306541	Advanced Flowering Plant Taxonomy	3(2-3-4)
303445	Organometallic Chemistry	2(2-0-4)	306542	Plant Ecology	3(2-3-4)
303447	Spectroscopy of Inorganic Compounds	2(2-0-4)	306543	Phycology	3(2-3-4)
303449	Selected Topics in Inorganic Chemistry	2(2-0-4)	306544	Mycology	3(2-3-4)
303451	Chemical Separations	2(2-0-4)	306545	Lower Vascular Plant Biology	3(2-3-4)
303459	Selected Topics in Analytical Chemistry	2(2-0-4)	306546	Aquatic Plants	3(2-3-4)
303471	Chemical Literature	2(2-0-4)	306547	Plant Microtechniques	3(2-3-4)
303472	Nuclear Chemistry	2(2-0-4)	306636	Animal Microtechniques	3(2-3-4)
303473	Applied Electrochemistry	3(2-0-4)	306641	Plant Morphogenesis	3(2-3-4)
303474	Polymer Science	2(2-0-4)	Group 5 Teaching Physics		
303475	Environment Chemistry	2(2-0-4)	409583	Seminar in the Behavioral Aspects of Teaching Physics	2(2-0-4)
303476	Pharmaceutical Chemistry	2(2-0-4)	And select not less than eight credits from the following:		
303477	Cosmetic Chemistry	2(2-0-4)	308312	Mechanics II	3(3-0-6)
303481	Industrial Chemistry	2(2-0-4)			

308372	Electronics I	3(3-0-6)
308373	Electronics Laboratory I	1(0-3-0)
308414	Introduction to Astrophysics	3(3-0-6)
308432	Applied Optics	3(3-0-6)
308452	Nuclear Physics II	3(3-0-6)
308471	Electronics II	3(3-0-6)
308472	Electronics Laboratory II	1(0-3-0)
308483	Atmospheric Physics	3(3-0-6)
308501	Mathematical Methods of Theoretical Physics I	3(3-0-6)
308511	Classical Mechanics I	3(3-0-6)
308541	Classical Theory of Electromagnetism	3(3-0-6)
308581	Selected Topics in Physics for Teachers	3(3-0-6)

Group 6 Teaching Mathematics

409584	Seminar in the Behavioral Aspects of Teaching Mathematics	2(2-0-4)
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And select not less than eight credits from the following:

302425	Abstract Algebra II	3(3-0-6)
302473	Introduction to Numerical Analysis	3(3-0-6)
302501	Mathematical Analysis	3(3-0-6)

302502	Advanced Linear Algebra	3(3-0-6)
302503	Mathematical Statistics	3(3-0-6)
302504	Vector Analysis	3(3-0-6)

Group 7 Teaching Arts

409585	Seminar in the Behavioral Aspects of Teaching Arts	2(2-0-4)
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And select not less than eight credits from the following:

619502	Aesthetics	2(2-0-4)
619504	Philosophy of Art Education	2(2-0-4)
619511	Advanced Visual Art I	2(2-0-4)
619512	Advanced Visual Art II	2(2-0-4)
619516	Advanced Visual Art III	2(2-0-4)
619514	Advanced Visual Art IV	2(2-0-4)

Thesis 12 credits

449694	Thesis	12(0-0-48)
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Substitute Courses for Thesis 12 credits

409641	Information Management for Curriculum and Instructional Development	3(3-0-6)
409691	Research in Curriculum and Instruction	3(3-0-6)
409692	Advanced Academic Writing	6(0-18-0)

**Master of Education Program in
Educational Administration**

Courses Structure

Students are required to take a minimum of 28 credits comprising the following areas of course work:

Plan A

Required Courses	12 credits
Elective Courses	4 credits
Thesis	12 credits

Plan B

Required Courses	12 credits
Elective Courses	13 credits
Independent Study	3 credits

Basic Education 8 credits

402572	Advanced Foundations of Education	2(2-0-4)
434521	Research Methods in Behavioral and Social Sciences	3(3-0-6)
435511	Statistical Methods for Research	3(3-0-6)

Students who do not hold a Bachelor of Education must take seven more credits from the following courses:

401572	Ethics Education and Profession	2(2-0-4)
404521	Foundations of Curriculum and Instruction	3(3-0-6)
415512	Psychology for Life and Work	2(2-0-4)

420510	Lifelong Education	2(2-0-4)
420543	Management of Local Educational Programs	2(2-0-4)
430514	Management Systems of Education	2(2-0-4)

Required Courses 8 credits

430511	Principles of Educational Administration	3(3-0-6)
430512	Policy and Planning	3(3-0-6)
430531	Human Resources Development	3(3-0-6)
430532	Educational Leadership	3(3-0-6)

Elective Courses

	Plan A	4 credits
	Plan B	12 credits
430513	Organizational Networks Administration	3(3-0-6)
430515	Project Management and Evaluation	3(3-0-6)
430521	Law for Administrators	3(3-0-6)
430522	Financial and Budget Administration	3(3-0-6)
430541	Economics for Educational Administrations	3(3-0-6)
430542	Politics of Education	3(3-0-6)
430551	Ethics for Administrators	3(3-0-6)
430556	Research in Educational Administration	3(3-0-6)
430561	Information Management	3(3-0-6)
430562	System Analysis	3(3-0-6)
430563	Organization Development	3(3-0-6)

430564	Quality and Standards of Education Management	3(3-0-6)
430571	Analysis of Educational Supervision	3(3-0-6)
430581	Seminar in Educational Administration	3(3-0-6)
Thesis		12 credits
430699	Thesis	12(0-0-36)
Independent Study		3 credits
430698	Independent Studies	3(0-0-9)

401502	Sociology Foundations of Education	2(2-0-4)
401504	Historical Foundations of Education	2(2-0-4)
401505	Comparative and International Education	2(2-0-4)
401507	Professional Ethics	2(2-0-4)
401508	Economic Foundations of Education	2(2-0-4)
401509	Psychological Foundations for Life and Work	2(2-0-4)
416503	Psychological Foundations of Education	2(2-0-4)
423506	Foundations of Educational Technology	2(2-0-4)

**Master of Education Program in
Educational Technology**

Courses Structure

Students are required to take a minimum of 43 credits comprising the following areas of course work:

Core Courses	10 credits
Major Required Courses	15 credits
Major Elective Courses	6 credits
Thesis	12 credits

Core Courses 10 credits

434521	Research Methods in Behavioral and Social Science	3(3-0-6)
435511	Statistical Methods for Research	3(3-0-6)

And four credit hours must be selected from the following:

401501	Philosophical Foundations of Education	2(2-0-4)
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434522	Data Collection Techniques and Research Tool Construction	2(2-0-4)
435513	Inferential Statistics	2(2-0-4)
435514	Statistical Designs of Experiment	2(2-0-4)
436511	Computer for Research	2(2-0-4)

Students who do not hold Bachelor's degree in Education, must take 4 more credits from the following areas:

401500	Education and Society	2(2-0-4)
404361	General Method of Teaching	2(2-1-3)
OR		
423301	Instructional Media	2(2-1-3)
416301	Educational Psychology	2(2-0-4)
OR		
433401	Educational Measurement	2(2-0-4)

Major Required Courses **16 credits**

423500 Computer Education I 2(1-2-3)

423510 Research and Theory in
Educational Technology 2(2-0-4)

423511 Instructional Design 2(2-0-4)

423512 Research in Educational
Technology 2(2-0-4)423513 Field Profession and Theory
in Educational Technology 2(2-0-4)423600 Cognitive Psychology and
Instructional Theory 2(2-0-4)423610 Design for Instructional
Media Production 2(1-2-3)423620 Development of Human
Resource 2(2-0-4)**Major Elective Courses** **6 credits**

423520 Individualized Instruction 2(2-0-4)

423521 Mass Media and Education 2(2-0-4)

423522 Integration of Instructional
Media in Curriculum 2(2-0-4)423523 Radio Program Production
for Education 2(1-2-3)423524 Television Program Production
for Education 2(1-2-3)423525 Management of Educational
Technology Program 2(2-0-4)

426526 Still Picture Photography 2(1-2-3)

423527 Utilization of Audio-Visual
Equipment and Materials 2(1-2-3)

423530 Computer for Education 2(1-2-3)

423531 Computer Multimedia 2(1-2-3)

Thesis **12 credits**

414699 Thesis 12(0-0-36)

**Master of Education Program in
Elementary Education****Course Structure**

Students are required to take a minimum
of 45 credits comprising the following areas of
course work:

Core Courses 10 credits

Major Course 21 credits

- Required Courses 17 credits

- Elective Courses 4 credits

Free elective Courses 2 credits

Thesis 12 credits

Core courses **10 credits**434521 Research Methods in Behavioral
and Social Science 3(3-0-6)435511 Statistical Methods for Research
3(3-0-6)

And four credit hours must be selected from the
following courses:

401501 Philosophical Foundations of
Education 2(2-0-4)401502 Sociological Foundations of
Education 2(2-0-4)401504 Historical Foundations of
Education 2(2-0-4)401505 Comparative and International
Education 2(2-0-4)

401507 Professional Ethics 2(2-0-4)

401508	Economic Foundations of Education	2(2-0-4)	406522	Problems and Techniques in Teaching Mathematics in Elementary School	2(2-0-4)
415509	Psychological Foundations for Life and Work	2(2-0-4)	406523	Problems and Techniques in Teaching Life Experiences	2(2-0-4)
416503	Psychological Foundations of Education	2(2-0-4)	406524	Problems and Techniques in Teaching Character Education	2(2-0-4)
423506	Foundations of Educational Technology	2(2-0-4)	406525	Problems and Techniques in Teaching Work Experience	2(2-0-4)
434522	Data Collection Techniques and Research Tool Construction	2(2-0-4)	406582	Seminar in Administration and Supervision in Elementary School	2(2-0-4)
435513	Inferential Statistics	3(3-0-6)	406681	Seminar in Behavior and Development of Elementary School Children	2(2-0-4)
435514	Statistical Designs for Experiments	2(2-0-4)		Elective Courses	4 credits
436511	Computers for Research	2(2-0-4)	405511	Theory and Practicum in Curriculum Development of Early Childhood Education	3(3-0-6)
Students who do not hold a Bachelor's degree in Education must take 9 more credits from the following courses:			405531	Creative Activities for Early Childhood	2(2-0-4)
401500	Education and Society	2(2-0-4)	405541	Education for Parents of Early Childhood	2(2-0-4)
404361	General Method of Teaching	2(2-1-3)	406504	Education for Children with Special Needs	2(2-0-4)
423301	Instructional Media	2(2-1-3)	406512	Bases of Oral Communication and Communication Disorders	3(3-0-6)
416301	Educational Psychology	2(2-0-4)	406513	Thai Language in Elementary School	3(3-0-6)
423530	Computer Education II	2(2-0-4)			
Major Courses		21 credits			
Required Courses		17 credits			
406511	Curriculum and Instructional Development in Elementary Education	3(3-0-6)			
406521	Problems and Techniques in Teaching the Thai Language in Elementary School	2(2-0-4)			

406514	Mathematics in Elementary School	3(3-0-6)	406586	Seminar and Practicum in Teaching Mathematics for In-service Teachers	2(2-0-4)
406515	Science Education in Elementary School	3(3-0-6)	406587	Seminar and Practicum in Teaching Life Experiences Area for In-service Teachers	2(2-0-4)
406516	Innovation and Technology and Change in Teaching Social Studies	3(3-0-6)	406588	Seminar and Practicum in Teaching Character Education for In-service Teachers	2(2-0-4)
406526	Reading	2(2-0-4)	406589	Seminar and Practicum in Teaching Work Experiences for In-service Teachers	2(2-0-4)
406531	Measurement and Evaluation in Elementary School	2(2-0-4)	406591	Independent Study	2(2-0-4)
406532	Guidance in Elementary School	3(3-0-6)	406601	Development of Teaching Competence in Elementary School Teachers	2(2-0-4)
406541	Role of the Elementary School in the Community	2(2-0-4)	406611	Group Behavior	2(2-0-4)
406551	Development and Analysis of Textbooks and Educational Media	2(2-0-4)	406621	Speech Therapy in Elementary School	3(3-0-6)
406581	Seminar in Behavior and Development of Elementary School Children	2(2-0-4)	406625	Critique of Children Literature	2(2-0-4)
406583	Seminar and Practicum in Teaching Values and Ethics	2(2-0-4)	406641	Elementary Education in South East Asia	2(2-0-4)
406584	Seminar and Practicum for In-service Teachers	2(2-0-4)	Thesis	12 credits	
406585	Seminar and Practicum in Teaching Thai Language through Art for In-service Teachers	2(2-0-4)	449694	Thesis	12(0-0-36)

**Master of Education Program in
Guidance Psychology**

Courses Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Plan A

Core Courses	8 credits
Major Required Courses	12 credits
Major Elective Courses	4 credits
Thesis	12 credits

Plan B

Core Courses	8 credits
Required Courses	24 credits
Elective Courses	4 credits

Plan A

Major Required Courses	12 credits
414511 Case Study	2(1-2-3)
414512 Information technology for Guidance	2(1-2-3)
414621 Guidance Psychological Practicum	2(0-6-0)
415511 Theories of Personality	2(2-0-4)
415551 Psychological Testing	2(2-0-4)
416511 Theories and Techniques of Counseling	2(1-2-3)
Major Elective Courses	4 credits
414513 Group Dynamics and Leadership	2(2-0-4)
414514 Career Education	2(2-0-4)

414641 Seminar on Problems and Research in Guidance Psychology	2(1-2-3)
414642 Seminar on Contemporary Issues in Occupation	3(3-0-6)
415512 Psychology for Life and Work	2(2-0-4)
415641 Seminar on Developmental Psychology	2(1-2-3)
415698 Independent Study	3(0-0-9)
416623 Biofeedback for Counseling	2(1-2-3)
416642 Family and Community Counseling	2(2-0-4)
Thesis	12 credits
414699 Thesis	12(0-0-36)
Plan B	
Required Courses	24 credits
414511 Case Study	2(1-2-3)
414512 Information technology for Guidance	2(1-2-3)
414621 Guidance Psychological Practicum	2(0-6-0)
414641 Seminar on Problems and Research in Guidance Psychology	2(1-2-3)
414642 Seminar on Contemporary Issues	
415511 Theories of Personality	2(2-0-4)
415551 Psychological Testing	2(2-0-4)
415612 Mental Hygiene	2(2-0-4)
415641 Seminar on Developmental Psychology	2(1-2-3)
415698 Independent Study	3(0-0-9)

416511 Theories and Techniques
of Counseling 2(1-2-3)

Elective Courses 4 credits

414513 Group Dynamics and Leadership 2(2-0-4)

416644 Career Counseling 2(2-0-4)

416621 Group Counseling 2(1-2-3)

416623 Biofeedback for Counseling 2(1-2-3)

416642 Family and Community
Counseling 2(2-0-4)

**Master of Education Program in
Nonformal Education**

Courses Structure

Students are required to take a minimum
of 36 credits comprising the following areas of
course work:

Plan A

Core Courses 8 credits
Major Required Courses 10 credits
Major Elective Courses 6 credits
Thesis 12 credits

Plan B

Core Courses 8 credits
Required Courses 22 credits
Elective Courses 6 credits

Core Courses 8 credits

402572 Advanced Foundations of
Education 2(2-0-4)

434521 Research Methods in Behavioral
and Social Science 3(3-0-6)

435511 Statistical Methods for Research

3(3-0-6)

Students who do not hold a Bachelor of Education
must take seven more credits from the following
courses:

401572 Ethics, Education and
Professional 2(2-0-4)

404521 Foundations of Curriculum
and Instruction 3(3-0-6)

And two credit hours are to be selected from the
following courses:

415512 Psychology for Life and Work 2(2-0-4)

420510 Lifelong Education 2(2-0-4)

420541 Management of Local
Education Program 2(2-0-4)

430514 Management System in
Education 2(2-0-4)

Plan A

Major Required Courses 10 credits

420511 Nonformal Education 2(2-0-4)

420521 Adult Development and Learning 2(2-0-4)

420522 Teaching Techniques for
Adult 2(2-0-4)

420531 Program Development in
Nonformal Education 2(2-0-4)

420651 Seminar on Nonformal
Education Research 2(2-04)

420524	Psychosocial Aspects of Aging	2(2-0-4)
420525	The Elderly and the Environment	2(2-0-4)
420533	Introduction to Measurement and Evaluation in Nonformal Education	2(2-0-4)
420534	Supervision in Nonformal Education	2(2-0-4)
420541	Needs Assessment and Problem Analysis	2(2-0-4)
420542	Curriculum Program Development in Nonformal Education	2(2-0-4)
420543	Management on Local Education Program	2(2-0-4)
420544	Nonformal Education and the Environment	2(2-0-4)
420545	Social Welfare for the Elderly	2(2-0-4)

Student may register, with the approval of his/her advisor, for two credits of elective courses offered in the department and four credit hours for graduate level courses offered at Burapha University or from accredited university level institutions both in Thailand and abroad.

Master of Science Program in Counseling Psychology

Courses Structure

Students are required to take a minimum of 37 credits comprising the following areas of course work:

Fundamental Courses	6 credits
Required Courses	17 credits
Elective Courses	2 credits
Thesis	12 credits

Fundamental Courses 6 credits

434521	Research Methods in Behavioral and Social Science	3(3-0-6)
435511	Statistical Methods for Research	3(3-0-6)

Required Courses 17 credits

415511	Theories of Personality	2(2-0-4)
415513	Abnormal Psychology	2(2-0-4)
415551	Psychological Testing	2(2-0-4)
416511	Theories and Techniques of Counseling	2(1-2-3)
416521	Micro Counseling	2(0-4-2)
416622	Internship in Counseling	3(0-6-3)
416641	Seminar on Problems and Research Counseling	2(1-2-3)
416642	Family and Community Counseling	2(1-2-3)

Elective Courses 2 credits

415514	Behavior Modification	2(2-0-4)
415541	Seminar on Industrial Psychology	2(2-0-4)

415542	Seminar on Communication	
	Psychology	2(2-0-4)
415543	Seminar on Personnel	
	Psychology	2(2-0-4)
415544	Seminar on Social Psychology	
		2(2-0-4)
415641	Seminar on Developmental	
	Psychology	2(2-0-4)
416621	Group Counseling	2(2-0-4)
416623	Biofeedback for Counseling	2(1-2-3)
416643	Seminar on Counseling	
	Management	2(1-2-3)
416644	Multicultural Counseling	2(2-0-4)
416698	Independent Study	3(0-0-9)
436511	Computer for Research	2(2-0-4)
Thesis		12 credits
416699	Thesis	12(0-0-36)

Students may also select courses as electives or any other related courses from other universities both in Thailand and abroad. Students must seek approval from their advisors and the Department of Education for inclusion of these courses in their program.

Master of Science Program in Educational Measurement Technology

Courses Structure

Students are required to take a minimum of 39 credits comprising the following areas of course work:

Required Courses	21 credits
Elective Courses	6 credits
Thesis	12 credits

Required Courses 21 credits

433512	Theories of Measurement	3(3-0-6)
433513	Computerized Educational Measurement	3(2-2-5)
433514	Constructing Cognitive Instruments	3(3-0-6)
433681	Seminar in Educational Measurement Theory	3(3-0-6)
434511	Quantitative Research Methodologies	3(3-0-6)
435521	Statistical Methods in Education and Psychology	3(3-0-6)
436521	Compute Program Design in Educational Research and Measurement	3(3-0-6)

Elective Courses 6 credits

Students may select from the following groups:

Educational Measurement and Evaluation

433515	Constructing Cognitive Instruments	3(3-0-6)
433516	Item Response Theory	2(2-0-4)
433517	Developing Test Items	3(3-0-6)

433518	Scaling Methods	3(3-0-6)
433519	Selected Topics in Educational Measurement	2(2-0-4)
433551	Program Evaluation	2(2-0-4)
433552	Educational Personnel Assessment	2(2-0-4)
433553	Selected Topics in Educational Evaluation	2(2-0-4)

Educational Research

434512	Qualitative Research Methodologies	3(3-0-6)
434513	Research Instrument Design	3(3-0-6)
434514	Survey Research	2(2-0-4)
434515	Operations Research	2(2-0-4)
434516	Curriculum Research	2(2-0-4)
434517	Experimental and Quasi- Experimental Research	2(2-0-4)
434318	Information Systems for Institutional Research	2(2-0-4)
434319	Theory and methods of Sampling	2(2-0-4)
434520	Selected Topics in Educational Research	2(2-0-4)
434681	Seminar in Educational Research Technology	3(3-0-6)

Statistics for Education and Psychology

435522	Correlation and Regression Methods	2(2-0-4)
435523	Multivariate Statistical Methods	3(3-0-6)

435524	Nonparametric Statistical Methods	2(2-0-4)
435425	Structural Equation Models	3(3-0-6)
435426	Selected Topics in Educational Statistics	2(2-0-4)

Computer for Research and Measurement in Education

436522	Information Technology for Educational Research and Measurement	2(2-0-4)
436523	Computer Programming for Measurement Analysis	2(2-0-4)
436524	Software Packages for Measurement Analysis	2(1-2-3)
436525	Software Packages for Statistical Analysis	2(1-2-3)
436526	Selected Topics in Computer Methods for Educational Research	2(2-0-4)
433699	Thesis	12(0-0-48)

Students may also select courses as electives to a maximum of 6 credits from other universities both in Thailand and abroad. Students must seek approval from their advisor and the Department of Education for inclusion of these courses in their program.

**Master of Science Program in
Educational Research Technology**

Courses Structure

Students are required to take a minimum of 39 credits comprising the following areas of course work:

Required Courses	21 credits
Elective Courses	6 credits
Thesis	12 credits
Required Courses	21 credits

434511	Quantitative Research Methodologies	3(3-0-6)
434512	Qualitative Research Methodologies	3(3-0-6)
434513	Research Instrument Design	3(3-0-6)
434681	Seminar in Education Research Technology	3(3-0-6)
435521	Statistical Methods in Education and Psychology	3(3-0-6)
435523	Multivariate Statistical Methods	3(3-0-6)
436521	Computer Program Design in Educational Research and Measurement	3(3-0-6)

Elective Courses 6 credits

Students may select from the following groups:

Educational Measurement and Evaluation

433512	Theories of Measurement	3(3-0-6)
433513	Computerized Educational Measurement	3(2-2-5)

433514	Constructing Cognitive Instruments	3(3-0-6)
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433515	Constructing Non-Cognitive Instruments	3(3-0-6)
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433516	Item Response Theory	2(2-0-4)
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433517	Developing Test Items	3(3-0-6)
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433518	Scaling Methods	3(3-0-6)
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433519	Selected Topics in Educational Measurement	2(2-0-4)
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433551	Program Evaluation	2(2-0-4)
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433552	Educational Personnel Assessment	2(2-0-4)
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433553	Selected Topics in Educational Evaluation	2(2-0-4)
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434681	Seminar in Education Research Technology	3(3-0-6)
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Educational Research

434514	Survey Research	2(2-0-4)
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434515	Operations Research	2(2-0-4)
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434516	Curriculum Research	2(2-0-4)
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434517	Experimental and Quasi-Experimental Research	2(2-0-4)
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434318	Information Systems for Institutional Research	2(2-0-4)
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434319	Theory and methods of Sampling	2(2-0-4)
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434520	Selected Topics in Educational Research	2(2-0-4)
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Statistics for Education and Psychology

435522	Correlation and Regression Methods	2(2-0-4)
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435524 Nonparametric Statistical Methods
2(2-0-4)

435425 Structural Equation Models 3(3-0-6)

435426 Selected Topics in
Educational Statistics 2(2-0-4)

**Computer for Research and Measurement in
Education**

436522 Information Technology for
Educational Research and
Measurement 2(2-0-4)

436523 Computer Programming for
Measurement Analysis 2(2-0-4)

436524 Software Packages for
Measurement Analysis 2(1-2-3)

436525 Software Packages for Statistical
Analysis 2(1-2-3)

436526 Selected Topics in Computer Methods
for Educational Research 2(2-0-4)

433699 Thesis 12(0-0-48)

Students may also select courses as electives to a maximum of 6 credits from other universities both in Thailand and abroad. Students must seek approval from their advisor and the Department of Education for inclusion of these courses in their program.

Thesis 12 credits

434699 Thesis 12(0-0-48)

**Master of Science Program in
Exercise and Sport Science**

Courses Structure

Students are required to take a minimum of 42 credits comprising the following areas of course work:

Foundation Courses	8 credit
Major Required Courses	15 credits
Major Elective Courses	4 credits
Free Elective Courses	3 credits
Thesis	12 credits

Foundation Courses 8 credit

435511 Statistical Methods for Research
3(3-0-6)

436511 Computer for Research 2(2-0-4)

443561 Research Methods in Exercise
and Sport Science 3(3-0-6)

Major Required Courses 15 credits

443511 Adaptive Exercise Physiology
2(2-0-4)

443512 Growth, Development and Aging
of Physical Fitness 2(2-0-4)

443513 Physical Therapy for Sports 2(2-0-4)

443521 Applied Biomechanics 2(2-0-4)

443531 Applied Sports Psychology 2(2-0-4)

443621 Physiological Testing, Exercise
Prescription and Program
Development 2(2-0-4)

443651 Seminar in Exercise and
Sport Science I 2(1-2-3)

433652 Seminar in Exercise and
Sport Science II 1(1-1-1)

Major Elective Courses 4 credits

443514 Adapted Exercise Training
Program 2(2-0-4)

443532 Lifestyle Studies 2(2-0-4)

443533 Exercise and Sport Promotion
2(2-0-4)

443534 Comparative Physical Education,
Exercise and Sport Science 2(2-0-4)

443535 Sports in Contemporary World
2(2-0-4)

443541 Physical Education, exercise and
Sport Science in Schools
And Colleges 2(2-0-4)

443542 Sports and Recreation Facilities
Planning 2(2-0-4)

443543 Sports Laws 2(2-0-4)

443653 Independent Study 2(0-2-4)

Free Elective Courses 3 credits

A student may register, with the approval of his/her advisor, for graduate level courses offered at Burapha University or accredited university level institutions both in Thailand and/or abroad.

Thesis 12 credits

443671 Master Thesis 12(0-0-48)

**Doctor of Education Program in
Education Administration**

Courses Structure

Students are required to take a minimum of 72 credits comprising the following areas of course work:

Core Courses 12 credits

Major Courses 24 credits

Thesis 36 credits

Core Courses 12 credits

Required Courses 9 credits

430990 Doctoral Research Proposal 3(3-0-6)

434761 Advanced Research Methodology
3(3-0-6)

435751 Statistics Applied to Behavioral
Science 3(3-0-6)

Elective Courses 3 credits

430744 Seminar in Applied Research
in Education 3(3-0-6)

434762 Qualitative Research 3(3-0-6)

434763 Quantitative Research 3(3-0-6)

Elective Courses 24 credits

Required Courses 15 credits

430711 Organizational Theory and
Its Application to Education 3(3-0-6)

430712 Contemporary Strategy in
Educational Management 3(3-0-6)

430713 Educational Policy and
Planning Analysis 3(3-0-6)

430741	Seminar Political, Economic and Social Problems as Related to Educational Administration	3(3-0-6)
430811	Leadership in the Changing World	3(3-0-6)
	Elective Courses	9 credits
430714	Project Management	3(3-0-6)
430715	Information Technological System for Management	3(3-0-6)
430741	Seminar Political, Economic and Social Problems as Related to Educational Administration	3(3-0-6)
430742	Seminar in Comparative Educational Administration	3(3-0-6)
430743	Ethics and Social Etiquette for Administrators	3(3-0-6)
430812	Change Process and Innovation in Educational Administration	3(3-0-6)
430881	Independent Study	3(3-0-6)
	Thesis	36 credits
430991	Thesis	36(0-0-108)

Doctor of Philosophy Program in Exercise and Sport Science

Courses Structure

Students are required to take a minimum of 84 credits comprising the following areas of course work:

Required Courses	18 credits
Elective Courses	18 credits
Thesis	48 credits

Required Courses 18 credits

443711	Advanced Exercise and Sport Physiology	2(2-0-4)
443712	Advanced Exercise and Sport Medicine	2(2-0-4)
443721	Advanced Exercise and Sport Biomechanics	2(2-0-4)
443731	Social Psychology Exercise and Sport	2(2-0-4)
443734	Psychomotor Measurement	2(2-0-4)
443761	Advanced Research Methods in Exercise and Sport Science	3(3-0-6)
443781	Advanced Nutrition for Exercise and Sport Science	2(2-0-4)
443851	Seminar I	1(0-2-1)
443852	Seminar II	1(0-2-1)
443853	Seminar III	1(0-2-1)

Elective Courses **18 credits**

443811	Exercise and Hypokinetic Disease	2(2-0-4)
443812	Environmental Exercise Physiology	2(2-0-4)
443813	Oxygen Transport System in Exercise and Sport Science	2(2-0-4)
443814	Euromuscular Physiology for Exercise and Sport Science	2(2-0-4)
443815	Physical Activities and Sports for Aging Population	2(2-0-4)
443816	Ergogenic Aids in Sport	2(2-0-4)
443817	Exercise and Sport in Children and Youth	2(2-0-4)
443418	Exercise and Sport in Women	2(2-0-4)
443419	Human Body Fat	2(2-0-4)
443821	Biomechanics of the Skeletal System	2(2-0-4)
443822	Biomechanics Analysis Techniques	2(2-0-4)
443823	Biomechanics of Motor Activities	2(2-0-4)
443831	Motivation in Exercise and Sport	2(2-0-4)
443832	Tests and Evaluation in Sport Psychology	2(2-0-4)
443833	Exercise and Health Psychology	2(2-0-4)
443835	Analytical Study of Motor Learning and Control	2(2-0-4)

443836	Motor Skill Acquisition	2(2-0-4)
443841	Curriculum and Instruction in Teaching Physical Education	2(2-0-4)
443842	Facilities Planning in Physical Education, Exercise and Sport	2(2-0-4)
443858	Independent Study	2(2-0-4)
443871	Analysis of Sport Management and Sociology	2(2-0-4)
443872	Sociological Factors in Exercise and Sport Science	2(2-0-4)
443873	Advanced Prescription for Exercise and Sport Training	2(2-0-4)
443881	Reading and Conference in Exercise and Sport Physiology	1(0-2-1)
443882	Reading and Conference in Exercise and Sport Biomechanics	1(0-2-1)
443883	Reading and Conference in Exercise and Sport Physiology	1(0-2-1)
443884	Reading and Conference in Exercise and Sport Studies	1(0-2-1)
<p>A student may register, with the approval of his/her advisor, for graduate level courses offered at Burapha University or accredited university level institutions both in Thailand and/or abroad.</p>		
Thesis		48 credits
443799	Thesis	48(0-0-144)

For students with Master's degree, no fewer than 48 credits are required

Required Courses	4 credits
Elective Courses	8 credits
Thesis	36 credits
Required Courses	4 credits
443852 Seminar II	1(0-2-1)
443853 Seminar III	1(0-2-1)
443854 Seminar IV	1(0-2-1)
443855 Seminar V	1(0-2-1)

Elective Courses **8 credits**

The Ph.D. Program in Exercise and Sport Science at Burapha University has a focus on the three areas of the discipline namely exercise and sport physiology, psychology and sociology (sport studies). Besides taking the required core courses, a student is required, with the approval of his/her advisor to take a minimum of 8 credits.

Thesis	36 credits
443899 Doctoral Dissertation	36(0-0-108)

Faculty of Humanities and Social Science

Master of Accountancy Program

Course Structure

Students are required to take a minimum of 45 credits comprising the following areas of course work:

Required Course	30 credits
Free Elective Courses	3 credits
Thesis	12 credits
Required Courses	30 credits
227501 Financial Management	3(3-0-6)
229521 Accounting Information Systems	3(3-0-6)
229522 Controllership	3(3-0-6)
229523 Advanced Accounting Policy and Application	3(3-0-6)
229524 Advanced Internal Auditing	3(3-0-6)
229525 Financial Reports Analysis	3(3-0-6)
229591 Seminar in Tax Accounting	3(3-0-6)
230511 Research Methodologies in Business	3(3-0-6)
230611 Advanced Strategic Management	3(3-0-6)
232617 Business Ethics and Social Contribution	3(3-0-6)

Free Elective Courses 3 credits

Plan A

229622 Advance Auditing	3(3-0-6)
229623 Advanced Accounting Theory	3(3-0-6)
229624 Computerized Information System Audit	3(3-0-6)
229631 Financial Planning	3(3-0-6)
229691 Seminar in Financial Accounting	3(3-0-6)
229692 Seminar in Managerial Accounting	3(3-0-6)
230602 Information Systems for Management	3(3-0-6)

Plan B

229624 Computerized Information System Audit	3(3-0-6)
229625 Strategic Cost Management	3(3-0-6)
229626 Advanced Managerial Accounting	3(3-0-6)
229631 Financial Planning	3(3-0-6)
229692 Seminar in Managerial Accounting	3(3-0-6)
230602 Management Information Systems	3(3-0-6)

Thesis	12 credits
229699 Thesis	12(0-0-36)
Substitute Courses for Thesis	12 credits
229698 Independent Study	3(3-0-6)
Financial Accounting	9 credits
229622 Advanced Auditing	3(3-0-6)
229623 Advanced Accounting theory	3(3-0-6)
229691 Seminar in Financial Accounting	3(3-0-6)
Managerial Accounting	9 credits
229631 Financial Planning	3(3-0-6)
229692 Seminar in Managerial Accounting	3(3-0-6)
230602 Management Information Systems	3(3-0-6)

Master of Arts Program in English for Communication

Course Structure

Students are required to take a minimum of 40 credits comprising the following areas of course work:

Core Courses	16 credits
Area of Concentration Courses	12credits
Thesis	12 credits
Core Courses	16 credits
212501 Research Methodology on English	3(3-0-6)
212502 Language Tesearch Literacy	2(2-0-4)

212503 English for Professional and Career Purposes	3(3-0-6)
212504 Language Use and Style	2(2-0-4)
212505 Rhetorical Analysis	2(2-0-4)
212506 Language and Cultural Understanding	2(2-0-4)
212581 Seminar: English Language	2(2-0-4)
Area of Concentration Courses	12credits
English for Media Communication	
212521 Media Writing I	3(3-0-6)
212522 Media Writing II	3(3-0-6)
212523 Media Writing III	3(3-0-6)
212524 Writing Workshop	3(3-0-6)
212525 Freelance Writing	3(3-0-6)
212526 Persuasive Writing	3(3-0-6)
212531 Public Speaking	3(3-0-6)
212532 Oral Reporting	3(3-0-6)
212582 Academic Writing	2(2-0-4)
English for Business Communication	
212541 English for Tourism	3(3-0-6)
212542 Advanced English for Tourism	3(3-0-6)
212561 Study and Practice of Language Structures in Business Communication	3(3-0-6)
212562 English for Business Communication	3(3-0-6)
212563 Advanced English for Business Communication	3(3-0-6)
212571 English for Hotel and Restaurant	3(3-0-6)

212533	Speech-Communication in Business and the Professions	3(3-0-6)
212527	Business and Technical Writing	3(3-0-6)
212582	Academic Writing	2(2-0-4)
	English for Translation and Interpretation	
212551	Translation Techniques	3(3-0-6)
212552	Translation for Business and Legal Documents	3(3-0-6)
212553	Interpretative Translation	3(3-0-6)
212554	Simultaneous Translation I	3(3-0-6)
212555	Simultaneous Translation II	3(3-0-6)
212556	Simultaneous Translation III	3(3-0-6)
212582	Academic Writing	2(2-0-4)
	Thesis	12 credits
212691	Thesis	12(0-0-36)

Master of Arts Program in

Library and Information Science

Course Structure

The students are required to take a minimum of 42 credits comprising the following areas of course work:

Required courses	24 credits
Elective courses	9 credits
Thesis	12 credits

Pre-requisite non-credit courses are required for students who have not completed a Library Science or Library and Information Science course at the undergraduate level.

	Required Courses	17 credits
202311	Information Science	3(3-0-6)
202502	Research in Library and Information Science	3(3-0-6)
202506	Statistics in Library and Information Science	3(2-2-5)
202511	Advanced Cataloging and Classification	3(3-0-6)
202533	Library Automation Administration	3(3-0-6)
202561	Data Processing for Libraries and Information Centers	3(2-2-5)
202665	Computerized Integrated Systems for Library Management	3(3-0-6)
	Elective courses	9 credits
202503	Communication Skills in Library and Information Science	3(3-0-6)
202504	Readings in Library and Information Science	3(3-0-6)
202505	Information and Society	3(3-0-6)
202512	Serials Literature	3(3-0-6)
202513	Abstracting and Indexing	3(3-0-6)
202531	Information Resources and Services in Special Collections	3(3-0-6)
202532	Marketing Aspects of Library and Information Services	3(3-0-6)
202542	Information Resources and Services in the Humanities	3(3-0-6)
202543	Information Resources and Services in the Social Sciences	3(3-0-6)

202544	Information Resources and Services in Science and Technology	3(3-0-6)
202545	Information Resources and Services in Eastern Thailand	3(3-0-6)
202631	Research Seminar	3(3-0-6)
202632	Current Issues in Information Science	3(3-0-6)
202633	Government Publications	3(3-0-6)
202634	Independent Study	3(3-0-6)
202635	Library and Information Center Buildings	3(3-0-6)
202650	Practicum in the Libraries and Information Centers	3(3-0-6)
202661	Information Technology	3(2-2-5)
202662	Database Management System	3(2-2-5)
202663	Information System Analysis and Design	3(3-0-6)
202664	Application of Commercial DBMS Package in Library Services	3(2-2-5)
202666	Searching Techniques of Databases	3(2-2-5)
202671	Library and Information Networks	3(3-0-6)
202672	Publishing in Business	3(3-0-6)
Thesis		12 credits
202691	Thesis	12(0-0-36)

Master of Arts Program in Thai

Courses Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Plan A

Required Course	18 credits
Elective Courses	6 credits
Thesis	12 credits

Plan B

Required Course	18 credits
Elective Courses	8 credits
Substitute Courses for Thesis	10 credits

Required Courses 30 credits

208501	Thai language Research Methodology	3(3-0-6)
208502	Linguistic Theories	3(3-0-6)
208503	Theory of Literature	3(3-0-6)
208604	Seminar on Thai Language and Linguistic Research	3(3-0-6)
208605	Seminar on Thai Literature Research	3(3-0-6)
208606	Folklore Theories and Research	3(3-0-6)

Elective Courses 30 credits

Plan A	6 credits
Plan B	8 credits

Group 1 Linguistics Related Courses

208511	Thai Phonetics and Phonology	2(2-0-4)
208512	Thai Morphology	2(2-0-4)

208513	Thai Syntax	2(2-0-4)	208583	Literature of Northern Region	
208521	Applied Linguistics	2(2-0-4)			2(2-0-4)
208522	Sociolinguistics	2(2-0-4)	208584	Literature of Northeast Region	
208523	Dialectology	2(2-0-4)			2(2-0-4)
208524	Foreign Language Influences on Thai	2(2-0-4)	208585	Literature of Southern Region	
					2(2-0-4)
208531	Evolution of the Thai Language	3(3-0-6)	208586	Literature of Eastern Region	
					2(2-0-4)
208625	Seminar on Language and Culture	2(2-0-4)	208651	Seminar on Masterpieces of King Narai's Period	2(2-0-4)
280626	Contrastive Analysis of Languages	2(2-0-4)	208652	Development of Prose in King Rama V's Period	2(2-0-4)
208627	Thai Traditional Grammar	3(3-0-6)	208653	History of Vedic Sanskrit Literature	2(2-0-4)
208628	Thai Stylistics	2(2-0-4)			
208632	Paleography	3(3-0-6)	208661	Seminar on Masterpieces of Prince Paramanujit	2(2-0-4)
208633	Seminar on the Thai Language of Various Phases	3(3-0-6)	208662	Seminar on King Rama V's Work	2(2-0-4)
	Group 2 Traditional Literature				
208541	Seminar on Tebhumikatha	2(2-0-4)	208663	Seminar on King Rama VI's Work	2(2-0-4)
208543	Seminar on the Mahajati	2(2-0-4)			
208544	Seminar on the Ramayana	2(2-0-4)	208674	Evolution of the Thai Short Story and the Thai Novel	2(2-0-4)
208545	Seminar on Khunchang Khunphaen	2(2-0-4)	208675	Evolution of Thai Poetry	2(2-0-4)
208571	Principles of Comparative Literature	2(2-0-4)		Elective Courses for International Students	
208572	Literature and Other Arts	2(2-0-4)	208504	Thai for International Students	3(2-2-5)
208573	Foreign Literary Influences on Thai Literature	2(2-0-4)	208505	Thai in Everyday Life for International Students	3(2-2-5)
208581	Folk Literature	2(2-0-4)		Thesis	12 credits
280582	Literature of Central Region	2(2-0-4)	208669	Thesis	12(0-0-36)

Substitute Courses for Thesis	10 credits
208514 Thai Linguistics	3(3-0-6)
208676 Seminar on Prose and Poetry	3(3-0-6)
208698 Independent Study	4(0-0-16)

Master of Management Program in Human Resource Management

Course Structure

Students are required to take a minimum of 42 credits comprising the following areas of course work:

Plan A

Core Courses	15 credits
Area of Concentration Courses	12 credits
Independent Study	3 credits
Thesis	12 credit

Plan B

Core Courses	15 credits
Area of Concentration Course	12 credits
Independent Study	3 credits
Elective Courses	3 credits
Substitute Courses for thesis	9 credits

Basically Adjust Courses 9 credits

229501 Financial Accounting	3 (3-0-6)
230501 Organization and Management	3(3-0-6)
230504 Statistics for Business	3(3-0-6)

Core Courses 15 credits

230511 Research Methodologies in Business	3(3-0-6)
230611 Advanced Strategic Management	3(3-0-6)
232502 Leadership and Organization Transformation	3(3-0-6)
232552 Quality and Productivity Management	3(3-0-6)
232561 Principles of Human Resources Management	3(3-0-6)

Area of Concentration Courses 15 credits

232562 Human Resource Planning Staffing and Retention	3(3-0-6)
232611 Business and Labor Laws	3(3-0-6)
232661 Strategic Human Resources Development	3(3-0-6)
232663 Remuneration Management	3(3-0-6)

Independent Study 3 credits

232698 Independent Study	3 (0-0-9)
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Thesis 12 credits

232699 Thesis	12 (0-0-36)
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Substitute Courses for Thesis 9 credits

227501 Financial Management	3(3-0-6)
228501 Marketing Management	3 (3-0-6)
232517 Entrepreneurship	3(3-0-6)
232551 Production and Operational Management	3(3-0-6)

232553	Managerial Ethics and Social Responsibility	3(3-0-6)
232651	Leadership and Team Work	3(3-0-6)
232662	Information Technology in Human Resource Management	3(3-0-6)
232664	Industrial Relations	3(3-0-6)
232665	International Human Resource Management	3(3-0-6)
232666	Seminar on Issue in Human Resource Management	3(3-0-6)
232691	Seminar in Intercultural Communication	3(3-0-6)

Students can select other minor courses from other faculties in Burapha University on approval of the Head of Department.

Master of Science Program in Geographical Technology

Courses Structure

Students are required to take a minimum of 39 credits comprising the following areas of course work:

Plan A

Required Courses	15 credits
Elective Courses	12 credits
Thesis	12 credits

Plan B

Required Courses	15 credits
Elective Courses	18 credits
Thesis	6 credits

Required Courses **15 credits**

223501	Research Methodology in Geography	3(3-0-6)
223502	Advanced Remote Sensing and Global Positioning System	3(3-2-5)
223503	Advanced Geographic Information System	3(2-2-5)
223505	Seminar on Geographical Technology I	2(1-2-3)
223506	Seminar on Geographical Technology II	1(1-1-1)

Elective Courses

Plan A	12 credits	
Plan B	18 credits	
223510	Data Bases Management System and Informatics in Geographic	3(2-2-5)
223511	Advanced Computer Mapping	3(2-2-5)
223512	Image Analysis System	3(2-2-5)
223513	Advanced Three-Dimensioned Mapping	3(2-2-5)
223514	Advanced Cartography and Plan Study	3(2-2-5)
223611	Techniques of Cartography and Aerial Photo Interpretation	3(2-2-5)
223612	Advanced Photogrammetry	3(2-2-5)
223613	Microwave Remote Sensing	3(2-2-5)
223614	Resource Management Information System	3(2-2-5)

223615	Advanced Land Use Planning Techniques	3(2-2-5)	223622	Environment Impact Assessment	3(3-0-6)
223616	Application of Remote Sensing and Geographic Information System	3(2-2-5)	223623	Advanced Physical Geography	3(3-0-6)
223617	Advanced Geomorphology	3(2-2-5)	223624	Advanced Political Geography	3(3-0-6)
223618	Geographic Thoughts	3(3-0-6)	Thesis		12 credits
223619	Advanced Urban Geography	3(3-0-6)	223699	Thesis	12(0-0-36)
223620	Advanced Industrial Geography	3(3-0-6)	Independent Study		6 credits
223621	Advanced Developmental Geography	3(3-0-6)	223698	Independent Studies	6(0-0-18)

Faculty of Nursing

Master of Nursing Science Program in

Adult Nursing

Courses Structure

Students are required to take a minimum of 40 credits comprising the following areas of course work:

Core Courses	9 credits
Area of Concentration Courses	12 credits
Elective Courses	7 credits
Thesis	12 credits
Core Courses	9 credits
104521 Research Methodology in Nursing	2(2-0-4)
104522 Leadership in Nursing	2(2-0-4)
107521 Nursing Theory	2(2-0-4)
435511 Statistics Methods for Research	3(3-0-6)
Area of Concentration Courses	12 credits
103531 Advanced Adult Nursing I	3(3-0-6)
103532 Advanced Adult Nursing II	2(0-8-0)
103533 Advanced Adult Nursing III	3(3-0-6)
103534 Advanced Adult Nursing IV	2(0-8-0)
103635 Seminar on Adult Nursing	2(2-0-4)
Elective Courses	7 credits
Nursing Education	
104523 Curriculum in Nursing Science	2(2-0-4)
104624 Teaching-Learning in Nursing Science	2(2-0-4)

Nursing Administration

104525	Nursing Administration	2(2-0-4)
104626	Supervision in Nursing	2(2-0-4)

And minimum of 3 credits must be selected from the following:

101627	Nursing for the Health Problems Patient from Industrial Factory	2(2-0-4)
103623	Cardiac Rehabilitation	2(2-0-4)
103624	Traumatic Nursing	2(2-0-4)
103625	Rehabilitation Nursing	2(2-0-4)
103626	Oncology Nursing	2(2-0-4)
103627	Nursing for the Pain Patient	2(2-0-4)
103628	Nursing Care for Aids Patient	2(2-0-4)
104527	Nursing Research Seminar	2(2-0-4)
104529	Nursing Educational Administration	2(2-0-4)
104632	Computer for Nursing Administration	2(1-4-1)
104638	Marketing in Nursing	2(2-0-4)
104639	Nursing Informatics and Technologies	2(2-0-4)
104640	Nursing Personnel Development	2(2-0-4)
104641	Entrepreneurial Concepts in Nursing Administration	2(2-0-4)
104642	Nursing Quality Assurance	2(2-0-4)
104643	International Nursing	2(2-0-4)

104649	Nursing Education Technology	3(3-0-6)
104650	Teaching Clinical Nursing	2(2-0-4)
104651	Evaluation of Nursing Practicum	2(2-0-4)
104652	Quality Assurance in Nursing Education	2(2-0-4)
104653	Problem Based Learning in Nursing Education	2(2-0-4)
104654	Computer for Nursing Research	2(1-4-1)
107522	Transcultural	2(2-0-4)
107624	Nursing Profession Development	2(2-0-4)
430563	Organization Development	3(3-0-6)

The students can select minors from other faculties in Burapha University on approval of the Head of Department.

Thesis	12 credits	
149601	Thesis	12(0-0-48)

Plan B : Students must enroll in the following thesis substitute courses.

103601	Inquiry in Adult Nursing	4(0-0-12)
103636	Quality Assurance in Adult Nursing	2(2-0-4)
104639	Nursing Informatics and Technologies	2(2-0-4)
107522	Transcultural Nursing	2(2-0-4)
107624	Nursing Profession Development	2(2-0-4)

Master of Nursing Science Program in Community Nursing

Courses Structure

Students are required to take a minimum of 40 credits comprising the following areas of course work:

Core Courses	9 credits
Area of Concentration Courses	12 credits
Required Elective Courses	4 credits
Free Elective Courses	3 credits
Thesis	12 credits
Core Courses	9 credits

104521	Research Methodology in Nursing	2(2-0-4)
104522	Leadership in Nursing	2(2-0-4)
107521	Nursing Theory	2(2-0-4)
435511	Statistic Methods for Research	3(3-0-6)

Area of Concentration Courses	12 credits	
101521	Community Nursing I	2(2-0-4)
101522	Community Nursing II	2(0-8-0)
101523	Community Nursing III	3(3-0-6)
101524	Community Nursing IV	3(0-12-0)
101625	Seminar on Community Nursing	2(2-0-4)

Required Elective Courses	4 credits	
Nursing Education		
104573	Curriculum in Nursing Science	2(2-0-4)
104674	Teaching-Learning in Nursing Science	2(2-0-4)

Nursing Administration

104525 Nursing Administration 2(2-0-4)

104662 Supervision in Nursing 2(2-0-4)

Free Elective Courses 3 credits

101526 Introduction to Occupational Health 3(3-0-3)

104527 Nursing Research Seminar 2(2-0-4)

104528 Evaluation of Instruction in Nursing 2(2-0-4)

104529 Nursing Education Administration 2(2-0-4)

104530 Advanced in Statistics and Research in Nursing 3(3-0-5)

104531 Statistics and Computer Science 2(2-0-4)

104632 Microcomputer for Administration 2(2-0-4)

106521 Community Mental Health Nursing 2(2-0-4)

106622 Gerontology 2(2-0-4)

107523 Self Care Theory 2(2-0-4)

430563 Organizational Development 3(3-0-6)

The students can select minors from other faculties in Burapha University on approval of the Head of Department.

Thesis 12 credits

149601 Thesis 12(0-0-48)

Plan B : Students must enroll in the following thesis substitute courses.

101626 Health Systems Development 2(2-0-4)

104639 Nursing Informatics and Technologies 2(2-0-4)

107522 Transcultural Nursing 2(2-0-4)

107624 Nursing Profession Development 2(2-0-4)

148601 Inquiry in Nursing 4(0-0-12)

Master of Nursing Science Program in Family Nursing

Courses Structure

Students are required to take a minimum of 40 credits comprising the following areas of course work:

Plan A

Core Courses 9 credits

Area of Concentration Courses 12 credits

Elective Courses 7 credits

Thesis 12 credits

Plan B

Core Courses 9 credits

Area of Concentration Courses 12 credits

Elective Courses 7 credits

Substitute Courses for Thesis 12 credits

Core Courses 9 credits

104521 Research Methodology in Nursing 2(2-0-4)

104522 Leadership in Nursing 2(2-0-4)

107521 Nursing Theory 2(2-0-4)

435511 Statistic Methods for Research 3(3-0-6)

Area of Concentration Courses 12 credits

102531	Family Nursing I	3(3-0-6)
102532	Family Nursing II	2(0-8-0)
102533	Family Nursing III	3(3-0-6)
102534	Family Nursing IV	2(2-0-4)
102635	Seminar in Family Nursing	2(2-0-4)

Elective Courses 4 credits

Nursing Education Group

104523	Curriculum in Nursing Science	2(2-0-4)
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104624	Teaching-Learning in Nursing Science	2(2-0-4)
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Nursing Administration Group

104525	Nursing Administration	3(3-0-6)
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104626	Supervision in Nursing	2(2-0-4)
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And minimum of 3 credits must be selected from the following:

101627	Advanced Community Nursing	3(3-0-6)
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102621	Advanced Nursing in Parent and Newborn	3(3-0-6)
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102623	Advanced Nursing for Children	3(3-0-6)
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102636	Women's Health	2(2-0-4)
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103621	Advanced Nursing in Adolescent and Adult Practicum	3(3-0-6)
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104527	Nursing Research Seminar	2(2-0-4)
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104529	Nursing Educational Administration	2(2-0-4)
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104632	Computer for Nursing Administration	
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		2(1-4-1)
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104640	Nursing Personnel Development	2(2-0-4)
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104642	Nursing Quality Assurance	2(2-0-4)
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104643	International Nursing	2(2-0-4)
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106623	Advanced Gerontological Nursing	3(3-0-6)
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106627	Family Theory	2(2-0-4)
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107522	Transcultural Nursing	2(2-0-4)
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The students can select minors from other faculties in Burapha University on approval of the Head of Department.

Thesis 12 credits

149601	Thesis	12(0-0-36)
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Plan B : Students must enroll in the following thesis substitute courses.

102636	Family Nursing Quality Development	2(2-0-4)
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104639	Nursing Informatics and Technologies	2(2-0-4)
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107522	Transcultural Nursing	2(2-0-4)
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107624	Nursing Profession Development	2(2-0-4)
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148601	Inquiry in Nursing	4(0-0-12)
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**Master of Nursing Science Program in
Gerontological Nursing**

Courses Structure

Students are required to take a minimum of 40 credits comprising the following areas of course work:

Core Courses	9 credits
Area of Concentration Courses	12 credits
Elective Courses	7 credits
Thesis	12 credits

Core Courses 9 credits

104521 Research Methodology in Nursing 2(2-0-4)

104522 Leadership in Nursing 2(2-0-4)

107521 Nursing Theory 2(2-0-4)

435511 Statistics Methods for Research 3(3-0-6)

Area of Concentration Courses 12 credits

106531 Gerontological Nursing I 3(3-0-6)

106532 Gerontological Nursing II 2(0-8-0)

106533 Gerontological Nursing III 3(3-0-6)

106534 Gerontological Nursing IV 2(0-8-0)

106635 Seminar on Gerontological Nursing 2(2-0-4)

Elective Courses 7 credits

Nursing Education

104523 Curriculum in Nursing Science 2(2-0-4)

104624 Teaching-Learning in Nursing Science 2(2-0-4)

Nursing Administration

104525 Nursing Administration 2(2-0-4)

104626 Supervision in Nursing 2(2-0-4)

And minimum of 3 credits must be selected from the following:

104527 Nursing Research Seminar 2(2-0-4)

104529 Nursing Educational Administration 2(2-0-4)

104632 Computer for Nursing Administration 2(1-4-1)

104639 Nursing Informatics and Technologies 2(2-0-4)

104640 Nursing Personnel Development 2(2-0-4)

104641 Entrepreneurial Concepts in Nursing Administration 2(2-0-4)

104642 Nursing Quality Assurance 2(2-0-4)

104643 International Nursing 2(2-0-4)

104649 Nursing Education Technology 3(3-0-6)

104650 Teaching Clinical Nursing 2(2-0-4)

104651 Evaluation of Nursing Practicum 2(2-0-4)

104652 Quality Assurance in Nursing Education 2(2-0-4)

104653 Problem Based Learning in Nursing Education 2(2-0-4)

106628 Psychosocial Nursing 2(2-0-4)

106629 Promoting Wellness in Aging 2(2-0-4)

106630 Geropsychiatric Nursing 2(2-0-4)

- 106631 International Health Care
System for Elderly People 2(2-0-4)
- 107522 Transcultural Nursing 2(2-0-4)
- 430563 Organizational Development 3(3-0-6)

The students can select minors from other faculties in Burapha University on approval of the Head of Department.

Thesis 12 credits

149601 Thesis 12(0-0-48)

Plan B : Students must enroll in the following thesis substitute courses.

104639 Nursing Informatics and
Technologies 2(2-0-4)

106639 Gerontological Nursing
Quality Development 2(2-0-4)

107522 Transcultural Nursing 2(2-0-4)

107624 Nursing Profession Development
2(2-0-4)

148601 Inquiry in Nursing 4(0-0-12)

Master of Nursing Science Program in Nursing Administration

Courses Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Plan A

Required Courses	34 credits
Core Courses	9 credits
Area of Concentration Courses	10 credits
Major Professional Courses	3 credits
Thesis	12 credits
Free Elective Courses	2 credits

Plan B

Required Courses	32 credits
Core Courses	9 credits
Area of Concentration Courses	16 credits
Major Professional Courses	3 credits
Thesis	4 credits
Free Elective Courses	4 credits

Required Courses

Plan A	34 credits
Plan B	32 credits
Core Courses	9 credits
104522 Leadership in Nursing	2(2-0-4)
107521 Nursing Theory	2(2-0-4)
107522 Transcultural Nursing	3(2-2-5)
107523 Self Care Theory	2(2-0-4)

Area of Concentration Courses			
Plan A		10 credits	
Plan B		16 credits	
104641	Entrepreneurial Concepts in Nursing Administration	2(2-0-4)	104524 Curriculum and Instruction in Nursing Science 3(3-0-6)
104642	Nursing Quality Assurance	2(2-0-4)	104525 Advanced Nursing Administration 3(3-0-6)
104644	Nursing Resource Management	2(2-0-4)	106623 Advanced Gerontological Nursing 3(3-0-6)
104645	Practicum in Nursing Administration	2(0-8-0)	106625 Advanced in Mental Health and Psychiatric Nursing 3(3-0-6)
104646	Seminar in Nursing Administration	2(2-0-4)	Free Elective Courses
	Plan B		Plan A 2 credits
104639	Nursing Informatics and Technologies	2(2-0-4)	Plan B 4 credits
104640	Nursing Personnel Development	2(2-0-4)	104527 Nursing Research Seminar 2(2-0-4)
104643	International Nursing	2(2-0-4)	104529 Nursing Educational Administration 2(2-0-4)
	Major Professional Courses 3 credits		104551 Implementation of Nursing Theories in Nursing Administration 2(2-0-4)
101628	Advanced Community Nursing Program	3(2-3-4)	104552 Development of Nursing Care Delivery 2(2-0-4)
102621	Advanced Nursing in Parent and Newborn	3(2-4-3)	104553 Implementation of Nursing Theories in Clinical Nursing 2(2-0-4)
102623	Advanced Nursing for Children	3(3-0-6)	105554 Decision Making in Clinical Nursing 2(2-0-4)
103621	Advanced Nursing in Adolescent and Adult	3(2-3-4)	104555 Theories Related to Nursing 2(2-0-4)
103622	Advanced Nursing in Adolescent and Adult Practicum	1(0-4-0)	104556 International Nursing Professional Practice 2(2-0-4)

104557	Economics in Nursing Science	2(2-0-4)	104649	Nursing Education Technology	2(2-0-4)
104558	Strategic Management in Health	2(2-0-4)	104650	Teaching Clinical Nursing	2(2-0-4)
104559	Program Evaluation in Health	2(2-0-4)	104651	Evaluation of Nursing Practicum	2(2-0-4)
104560	Computer for Research in Health	2(1-2-3)	107522	Transcultural Nursing	2(2-0-4)
104561	Politics in Nursing Profession	2(2-0-4)	107624	Nursing Profession Development	2(2-0-4)
104632	Computer for Nursing Administration	2(2-0-4)	The students can select minors from other faculties in Burapha University on approval of the Head of Department.		
104638	Marketing Nursing	2(2-0-4)	Thesis		12 credits
			104699	Thesis (Plan A)	12(0-0-36)
			Substitute Courses for Thesis		4 credits
			104698	Inquiry in Nursing (Plan B)	4(0-0-12)

Faculty of Public Health

Master of Public Health Program

Courses Structure

The students are required to take a minimum of 36 credits composed of the following areas of course work:

Plan A

General Education Courses	12 credits
Area of Concentration Courses	9 credits
Free Elective Courses	3 credits
Thesis	12 credits

Plan B

General Education Courses	15 credits
Area of Concentration Courses	9 credits
Free Elective Courses	6 credits
Independent Study	6 credits.

General Education Courses

Plan A **12 credits**

Plan B **15 credits**

750501 Health Behavior and Social Science	3(3-0-6)
750502 Public Health Administration	3(3-0-6)
750503 Environmental and Occupational Health	3(3-0-6)
750304 Epidemiology and Biostatistic	3(3-0-6)
Plan B 15 credits	
750501 Health Behavior and Social Science	3(3-0-6)
750502 Public Health Administration	3(3-0-6)

750503 Environmental and Occupational
Health 3(3-0-6)

750304 Epidemiology and Biostatistic 3(3-0-6)

750305 Research Methodology in
Public Health 3(2-2-5)

Area of Concentration Courses **9 credits**

Environmental Health

Major Required Courses **6 credits**

750510 Environmental Health Policy
and Planning 2(2-0-4)

750511 Management and Supervision
of Current Environmental
Health Issues 2(2-0-4)

750512 Environmental Impact Assessment
2(2-0-4)

Major Elective Courses **3 credits**

750513 Water Supply Management 3(3-0-6)

750514 Environmental Microbiology 3(3-0-6)

750515 Wastewater Treatment and
Management 3(3-0-6)

750516 Solid Waste Management 3(3-0-6)

750517 Air Pollution Management 3(3-0-6)

Industrial Hygiene and Safety Program

Major Required Courses **6 credits**

750520 Industrial Safety Management
and Related Regulation 3(3-0-6)

750521 Principle of Disaster Management
3(3-0-6)

Major Elective Courses	3 credits
750522 Practicum in Health Safety and Environmental	3(1-6-2)
750523 Risk Assessment and Management	3(3-0-6)
750524 Crisis Management	3(3-0-6)
750525 Safety Engineering and Ergonomics	3(3-0-6)
750526 Disaster Prevention and Emergency Medical System	3(2-3-4)
750527 Industrial toxicology and Hazard Management	3(2-3-4)
Public Health Administration	
Major Required Courses	6 credits
750530 Health Policy, Planning, Management and Evaluation	3(3-0-6)
750531 Health Resource Management	3(3-0-6)
Major Elective Courses	3 credits
750532 Health Services and Information System Management	3(3-0-6)
750533 Management Process for Quality of Life	3(3-0-6)
750534 Health Organizational Behavior	3(3-0-6)
Epidemiology	
Major Required Courses	6 credits
750540 Epidemiological Application for Program Analysis, Planning, Implementation and Evaluation	3(3-0-6)

750541 uses of Computer and MIS for Surveillance in Epidemiological Study	3(3-0-6)
Major Elective Courses	3 credits
750542 Measurements in Epidemiology	3(3-0-6)
750543 Statistic Methods in Epidemiology	3(3-0-6)
750544 Seminar in Epidemiology	3(3-0-6)
750545 Research Methods for Epidemiology	3(3-0-6)
Free Elective Courses	
Plan A	3 credits
Plan B	6 credits
750550 International Health	3(3-0-6)
750551 Health Promotion in Changing Society	3(3-0-6)
750552 Medical Anthropology for Health Professional	3(3-0-6)
750553 Computer Technology for Health Care System	3(3-0-6)
750554 Mediation for Health	3(3-0-6)
750555 Integrative Health Care	3(3-0-6)
Thesis	12 credits
750698 Thesis	12(0-0-36)
Independent Study	6 credits
750699 Independent Study	6(0-0-18)

Faculty of Science

Master of Science Program in Aquatic Science

Courses Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Required Courses	14 credits
Elective Courses	10 credits
Thesis	12 credits

Required Courses 14 credits

301511	Experimental Design and Statistical Analysis	3(3-0-6)
309501	Biological Aquatic Science	3(3-0-6)
309502	Chemical and Physical Aquatic Science	3(3-0-6)
309511	Research Methods in Aquatic Science	3(3-0-6)
309691	Seminar in Aquatic Science I	1(0-2-1)
309692	Seminar in Aquatic Science II	1(0-2-1)

Elective Courses 10 credits

Oceanography		
309531	Advanced Aquatic Pollution	3(3-0-6)
303532	Aquatic Biogeochemistry	3(3-0-6)
303533	Aquatic Biochemistry	3(3-0-6)
303537	Environmental Toxicology	3(3-0-6)
309541	Chemical Oceanchemistry	3(3-0-6)

309542	Physical Oceanography	3(3-0-6)
309543	Advanced Biological Oceanography	3(3-0-6)
309544	Geological Oceanography	3(3-0-6)
309545	Aquatic Toxic Assessment	3(3-0-6)
309581	Selected Topic in Oceanography I	2(2-0-4)
309582	Selected Topic in Oceanography II	2(2-0-4)

The students can select 4 minor credits from other faculties in Burapha University on approval of the Head of Department.

Aquatic Ecology

309560	Marine Flora	3(2-3-4)
309561	Advanced Aquatic Ecology	3(3-0-6)
309562	Planktonology	3(2-3-4)
309563	Mangrove Ecology	3(2-3-4)
309564	Coral Reef Ecology	3(2-3-4)
309565	Benthic Ecology	3(2-3-4)
309566	Aquatic Microbial Ecology	3(2-3-4)
309567	Advanced Invertebrate Ecophysiology	3(2-3-4)
309568	Fish Ecology	3(3-0-6)
309583	Selected Topic in Aquatic Ecology I	2(2-0-4)
309584	Selected Topic in Aquatic Ecology II	2(2-0-4)

The students can select 4 minor credits from other faculties in Burapha University on approval of the Head of Department.

Aquaculture

309523	Fish and Crustacean Endocrinology	3(3-0-6)
309534	Natural Products from Aquaculture	3(3-0-6)
309572	Aquaculture Genetics	3(3-0-6)
309573	Aquatic Animal Nutrition	3(3-0-6)
309574	Aquatic Animal Disease	3(2-3-4)
309575	Algae and Aquatic Plant Aquaculture	3(2-3-4)
309576	Mollusk Aquaculture	3(2-3-4)
309577	Crustacean Aquaculture	3(2-3-4)
309578	Pisciculture	3(2-3-4)
309579	Aquaculture Engineering	3(3-0-6)
309585	Selected Topics in Aquaculture I	2(2-0-4)
309586	Selected Topics in Aquaculture II	2(2-0-4)

The students can select 4 minor credits from other faculties in Burapha University on approval of the Head of Department.

Thesis	12 credits	
309699	Thesis	12(0-0-36)

Master of Science Program in Biological Science

Course Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Required Courses	14 credits
Elective Courses	10 credits
Thesis	12 credits

Required Courses 14 credits

301511	Experimental Design and Statistical Analysis	3(3-0-6)
306511	Cell and Molecular Biology	3(3-0-6)
316511	Advanced Biochemistry	3(3-0-6)
318521	Instrumentation in Biological Science	3(2-3-4)
318691	Seminar I	1(0-2-1)
318692	Seminar II	1(0-2-1)
Elective Courses		10 credits
Biochemistry and Biophysics		
316512	Metabolism and Regulation	3(2-3-4)
316513	Advanced Protein Biochemistry	3(3-0-6)
316514	Advanced Lipid Biochemistry	3(3-0-6)
316515	Advanced Nutritional Biochemistry	3(2-3-4)
316521	Advanced Biochemical Techniques	3(1-6-2)

316522	Experiments on Metabolism and Regulation	3(0-9-0)	306545	Lower Vascular Plant Biology	3(2-3-4)
316531	Membrane Biophysics	3(3-0-6)	306546	Aquatic Plants	3(2-3-4)
316532	Molecular Biophysics	3(3-0-6)	306547	Plant Microtechniques	3(2-3-4)
316611	Molecular Genetics	3(3-0-6)	306548	Advanced Plant Physiology I	3(2-3-4)
316633	Free Radicals in Biology and Medicine	3(3-0-6)	306549	Advanced Plant Physiology II	3(2-3-4)
316634	Radiopharmaceutics	3(3-0-6)	306641	Plant Morphogenesis	3(2-3-4)
316635	Selected Topics in Biophysics	2(2-0-4)	306642	Plant Geography	3(2-3-4)
316691	Special Research Project in Biochemistry	3(0-9-0)	306643	Plant Developmental Anatomy	3(2-3-4)
	Biotechnology		306644	Selected Topics in Botany	2(2-0-4)
307511	Advanced Biotechnology	3(2-3-4)		Marine Biology	
307612	Biotechnology Design	3(2-3-4)	309521	Marine Crustacean Biology	3(2-3-4)
307613	Selected Topics in Biotechnology I	2(2-0-4)	309522	Marine Mollusk Biology	3(2-3-4)
307614	Selected Topics in Biotechnology II	2(2-0-4)	309623	Marine Vertebrate Zoology	3(3-0-6)
307632	Color and Flavor Technology	3(2-3-4)	309624	Marine Animal Physiology	3(2-3-4)
307652	Fermentation Process	3(2-3-4)	309625	Marine Animal Endocrinology	3(3-0-6)
307653	Alcoholic Beverage Production Technology	3(2-3-4)	309643	Advanced Biological Oceanography	3(3-0-6)
	Botany		309561	Advanced Aquatic Ecology	3(3-0-6)
306541	Advanced Flowering Plant Taxonomy	3(2-3-4)	309563	Mangrove Ecology	3(2-3-4)
306542	Plant Ecology	3(2-3-4)	309564	Coral Reef Ecology	3(2-3-4)
306543	Phycology	3(2-3-4)	309565	Benthic Ecology	3(2-3-4)
306544	Mycology	3(2-3-4)		Microbiology	
			305512	Foundamental of Immunology	2(2-0-4)
			305513	General Virology	3(2-3-4)

305514	Selected Topics in Microbial Genetics	3(3-0-6)	305635	Soil and Agricultural Microbiology	3(2-3-4)
305601	Advanced Bacterial Physiology	3(2-3-4)	305651	Microbial Enzyme Technology	3(2-3-4)
305602	Advanced Yeast and Fungal Physiology	3(2-3-4)		Zoology	
305603	Advanced Microbial Genetics	(2-3-4)	306531	Advanced Animal Taxonomy	3(2-3-4)
305604	Selected Topics in Microbiology I	2(2-0-4)	306532	Advanced Animal Physiology	3(2-3-4)
305605	Selected Topics in Microbiology II	2(2-0-4)	306533	Comparative Endocrinology	3(2-3-4)
305606	Microbiological Techniques	3(2-3-4)	306534	Animal Ecology	3(2-3-4)
305607	Applied Microbiological	3(2-3-4)	306535	Zoogeography	3(2-3-4)
305608	Advanced Immunology	3(3-0-6)	306536	Protozoology	3(2-3-4)
305609	Advanced Virology	3(3-0-6)	306537	Parasitology	3(2-3-4)
305611	Microbial Products	3(2-3-4)	306538	Malacology	3(2-3-4)
305631	Microbial Ecology	3(2-3-4)	306539	Crustacean Biology	3(2-3-4)
305632	Marine and Estuarine Microbiology	3(2-3-4)	306631	Medical and Veterinary Entomology	3(2-3-4)
305633	Biodegradation and Bioremediation	3(2-3-4)	306632	Ichthyology	3(2-3-4)
305634	Waste Utilization by Microorganisms	3(2-3-4)	306633	Ornithology	3(2-3-4)
			306634	Mammalogy	3(2-3-4)
			306635	Animal Microtechniques	3(2-3-4)
			306636	Selected Topics in Zoology	2(2-0-4)
				Thesis	12 credits
			318699	Thesis	12(0-0-36)

Master of Science Program in Chemistry

Courses Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Required Courses 8 credits

Elective Courses 16 credits

Thesis 12 credits

Required Courses 8 credits

303531 Advanced Physical Chemistry
3(3-0-6)

303551 Spectrochemical Methods
of Analysis 3(3-0-6)

303591 Seminar I 1(1-0-2)

203592 Seminar II 1(1-0-2)

Elective Courses 16 credits

Analytical Chemistry

303541 Advanced Inorganic Chemistry
3(3-0-6)

303550 Instrumental Analysis Laboratory
2(0-6-6)

303552 Physical and Chemical Separations
3(3-0-6)

303553 Advanced Analytical Chemistry
3(3-0-6)

303554 Electroanalytical Chemistry 3(3-0-6)

303555 Radiochemistry 3(3-0-6)

303556 Statistics for Analytical Chemistry
3(3-0-6)

303557 Chip-Based Chemical Analysis
3(3-0-6)

303558 Advanced Chromatography 3(3-0-6)

303559 Advanced Capillary Electrophoresis
3(3-0-6)

303651 Selected Topics in Analytical
Chemistry I 2(2-0-4)

303652 Selected Topics in Analytical
Chemistry II 2(2-0-4)

Organic Chemistry

303521 Theoretical Organic Chemistry
3(3-0-6)

303522 Practical laboratories for Structural
Determination of Organic
Compounds 3(3-0-6)

303523 Advanced Organic Synthesis I
3(3-0-6)

303524 Advanced Organic Synthesis II
3(3-0-6)

303525 Advanced Organic Chemistry I
3(3-0-6)

303526 Advanced Organic Chemistry II
3(3-0-6)

303527 Advanced Organic Chemistry III
3(3-0-6)

303528 Advanced Organic Reaction
Mechanism 2(2-0-4)

303529 Selected Topics in Organic
Chemistry I 2(2-0-4)

303621 Selected Topics in Organic
Chemistry II 2(2-0-4)

303622 Selected Topics in Organic
Chemistry III 2(2-0-4)

Thesis **12 credits**
 303699 Thesis 12(0-0-36)

**Master of Science Program in
 Environmental Science**

Courses Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Required Courses 15 credits
Elective Courses 9 credits
Thesis 12 credits

Required Courses 15 credits

301511 Experimental Design and
 Statistical Analysis 3(3-0-6)
 313511 Environmental Science and
 Technology 2(2-0-4)
 313521 Environmental Impact Assessment
 3(3-0-6)
 313582 Environmental Management 3(3-0-6)
 313622 Techniques in Environmental
 Quality Analysis 2(2-0-4)
 313691 Seminar I 1(0-2-1)
 313692 Seminar II 1(0-2-1)

Elective Courses 9 credits

Aquatic Environment

309531 Advanced Aquatic Pollution 3(3-2-4)
 309532 Aquatic Biogeochemistry 3(3-0-6)
 309533 Aquatic Biochemistry 3(3-0-6)
 309537 Environmental Toxicology 3(3-0-6)

309545 Aquatic Toxic Assessment 3(3-0-6)
 309561 Advanced Aquatic Ecology 3(3-0-6)
 313531 Environmental Chemistry 2(2-0-4)
 3313535 Microbiology of Wastewater 2(2-0-4)
 313536 Biodegradation and Bioremediation
 3(2-3-4)
 313571 Environmental Law 2(2-0-4)
 313573 Environmental Engineering 3(3-0-6)
 313581 Environmental Economics 2(2-0-4)
 313583 Environmental Quality
 Management Policy 2(2-0-4)
 313584 Water Resources Management
 2(2-0-4)
 313585 Waste Water Treatment 2(2-0-4)
 313674 Selected Topics in Environmental
 Science and Technology I 3(3-2-4)
 313675 Selected Topics in Environmental
 Science and Technology I 2(2-0-4)
General Environmental
 223512 Remote Sensing and Application
 3(3-0-6)
 223513 Geographical Information Systems
 3(3-0-6)
 309537 Environmental Toxicology 3(3-0-6)
 313531 Environmental Chemistry 2(2-0-4)
 313532 Genetics and the Environment
 2(2-0-4)
 313533 Environmental Physics 2(2-0-4)
 313534 Microbiology of Environment
 2(2-0-4)

313536	Biodegradation and Bioremediation	3(2-3-4)
313537	Waste Utilization by Microorganisms	3(2-3-4)
313551	Air Pollution	2(2-0-4)
313552	Noise Pollution	2(2-0-4)
313553	Pollution from Chemistry	2(2-0-4)
313554	Soil Pollution	2(2-0-4)
313555	Food Toxicology	3(3-0-6)
313571	Environmental Law	2(2-0-4)
313572	Health Development and Environment	3(3-0-6)
313573	Environmental Engineering	3(3-0-6)
313581	Environmental Economics	2(2-0-4)
313583	Environmental Quality Management Policy	2(2-0-4)
313585	Waste Water Treatment	3(3-2-4)
313586	Pollution Control	2(2-0-4)
313634	Human Ecology	2(2-0-4)
313635	Environmental Physiology	3(3-0-6)
313674	Selected Topics in Environmental Science and Technology I	2(2-0-4)
313675	Selected Topics in Environmental Science and Technology I	2(2-0-4)
313687	Land Use Management	2(2-0-4)
313688	Integrated Solid Waste Management	2(2-0-4)
Thesis		12 credits
313699	Thesis	12(0-0-36)

Master of Science Program in Mathematics

Course Structure

Students are required to take a minimum of 38 credits comprising the following areas of course work:

Plan A

Required Courses	14 credits
Elective Courses	18 credits
Thesis	12 credits

Plan B

Required Courses	14 credits
Elective Courses	24 credits
Project	6 credits

Detailed Curriculum

Required Courses 14 credits

302521	Linear Algebra	3(3-0-6)
302522	Fundamentals of Modern Algebra	3(3-0-6)
302571	Real Analysis	3(3-0-6)
302572	Functional Analysis	3(3-0-6)
302691	Seminar I	1(0-2-1)
302692	Seminar II	1(0-2-1)

Elective Courses

Plan A	18 credits	
Plan B	24 credits	
302511	Advanced Calculus	3(3-0-6)
302512	Theory of Ordinary Differential Equations	3(3-0-6)

302513	Partial Differential Equations	3(3-0-6)
302551	Theory of Probability	3(3-0-6)
302552	Mathematics of Statistics	3(3-0-6)
302561	Numerical Analysis	3(3-0-6)
302573	Complex Analysis	3(3-0-6)
302581	Operations Research	3(3-0-6)
302582	Mathematical Programming I	3(3-0-6)
302614	Calculus of Variations	3(3-0-6)
302622	Matrix Theory	3(3-0-6)
302631	Graph Theory and Applications	3(3-0-6)
302641	Topology	3(3-0-6)
302653	Applied probabilities	3(3-0-6)
302662	Numerical Solution Ordinary Differential Equations	3(3-0-6)
302663	Numerical Solution of Partial Differential Equations	3(3-0-6)
302683	Mathematical Programming II	3(3-0-6)
302684	Optimization Techniques	3(3-0-6)
302693	Special Topics in Mathematics	3(3-0-6)
Thesis		
302699	Thesis (Plan A)	12(0-0-36)
302698	Thesis (Plan B)	6(0-0-18)

Doctor of Philosophy Program in Biological Science

Course Structure

Students are required to take a minimum of 84 credits comprising the following areas of course work:

Required Courses	16 credits
Elective Courses	20 credits
Thesis	48 credits

Required Courses 16 credits

301511	Experimental Design and Statistical Analysis	3(3-0-6)
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306511	Cell and Molecular Biology	3(3-0-6)
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316511	Advanced Biochemistry	3(3-2-4)
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318691	Seminar I	1(0-2-1)
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318692	Seminar II	1(0-2-1)
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318793	Seminar III	1(0-2-1)
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318794	Seminar VI	1(0-2-1)
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Elective Courses 20 credits

Microbiology

305512	Foundamental of Immunology	2(2-0-4)
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305513	General Virology	3(2-3-4)
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305514	Selected Topics in Microbial Genetics	3(3-0-6)
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305601	Advanced Bacterial Physiology	3(2-3-4)
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305602	Advanced Yeast and Fungal Physiology	3(2-3-4)
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305603	Advanced Microbial Genetics	3(2-3-4)	306533	Comparative Endocrinology	3(2-3-4)
305604	Selected Topics in Microbiology I	2(2-0-4)	306534	Animal Ecology	3(2-3-4)
305605	Selected Topics in Microbiology II	2(2-0-4)	306535	Zoogeography	3(2-3-4)
305606	Microbiological Techniques	3(2-3-4)	306536	Photozoology	3(2-3-4)
305607	Applied Microbiological	3(2-3-4)	306538	Malacology	3(2-3-4)
305608	Advanced Immunology	3(3-0-6)	306539	Crustacean Biology	3(2-3-4)
305609	Advanced Virology	3(3-0-6)	306631	Medical and Veterinary	
305611	Microbial Products	3(2-3-4)		Entomology	3(2-3-4)
305631	Microbial Ecology	3(2-3-4)	306632	Ichthyology	3(2-3-4)
305632	Marine and Estuarine Microbiology	3(2-3-4)	305533	Ornithology	3(2-3-4)
305633	Biodegradation and Bioremediation	3(2-3-4)	306634	Mammalogy	3(2-3-4)
305634	Waste Utilization by Microorganisms	3(2-3-4)	306635	Animal Microtechniques	3(2-3-4)
305635	Soil and Agricultural Microbiology	3(2-3-4)	306636	Selected Topics in Zoology	2(2-0-4)
305651	Microbial Enzyme Technology	3(2-3-4)	318711	Selected Topics in Bioscience I	2(2-0-4)
318711	Selected Topics in Bioscience I	2(2-0-4)	318712	Selected Topics in Bioscience II	2(2-0-4)
318712	Selected Topics in Bioscience II	2(2-0-4)		Biotechnology	
	Zoology		307511	Advanced Biotechnology	3(2-3-4)
306531	Advanced Animal Taxonomy	3(2-3-4)	307612	Biotechnology Design	3(2-3-4)
306532	Advanced Animal Physiology	3(2-3-4)	307613	Selected Topics in Biotechnology I	
			307614	Selected Topics in Biotechnology II	
			307632	Color and Flavor Technology	3(2-3-4)
			307652	Fermentation Process	3(2-3-4)
			307653	Alcoholic Beverage Production	
				Technology	3(2-3-4)

318711	Selected Topics in Bioscience I	2(2-0-4)
318712	Selected Topics in Bioscience II	2(2-0-4)
	Marine Biology	
309521	Crustacean Biology	3(2-3-4)
309522	Marine Mollusk Biology	3(2-3-4)
309543	Advanced Biological Oceanography	3(3-0-6)
309561	Advanced Aquatic Ecology	3(3-0-6)
309563	Mangrove Ecology	3(2-3-4)
309564	Coral Reef Ecology	3(3-2-4)
309565	Benthic Ecology	3(3-2-4)
309623	Marine Vertebrate Zoology	3(3-0-6)
309624	Marine Animal Physiology	3(2-3-4)
309625	Marine Animal Endocrinology	3(3-0-6)
318711	Selected Topics in Bioscience I	2(2-0-4)
318712	Selected Topics in Bioscience II	2(2-0-4)
	Biochemistry and Biophysics	
316512	Metabolism and Regulation	3(2-0-6)
316513	Advanced Protein Biochemistry	3(3-0-6)
316514	Advanced Lipid Biochemistry	3(3-0-6)
316515	Advanced Nutritional Biochemistry	3(2-3-4)
316522	Experiments on Metabolism and Regulation	2(2-0-4)

316691	Spical Research Project in Biochemistry	3(0-9-0)
316531	Membrane Biophysics	3(3-0-6)
316532	Molecular Biophysics	3(3-0-6)
316633	Free Radicals in Biology and Medicine	3(3-0-6)
316634	Radiophamaceutics	3(3-0-6)
316635	Selected Topics in Biophysics	2(2-0-4)

318711	Selected Topics in Biophysics I	2(2-0-4)
318712	Selected Topics in Biophysics II	2(2-0-4)

Students may select no more than 3 credits from other subject areas. Students may also select courses as electives from other Thai universities or from international universities up to a maximum of 6 credits. Students must seek approval from their advisor for inclusion of these courses in their program.

Thesis	48 credits	
318799	Doctoral Dissertation	48(0-0-144)
For students with Master's degree, no fewer than 48 credits are required.		
Required courses	2 credits	
Elective courses	10 credits	
Thesis	36 credits	
Required Courses	2 credits	
318793	Seminar III	1(0-2-1)
318794	Seminar IV	1(0-2-1)

Elective Courses **2 credits**

Students holding Bachelor's degrees must select no fewer than 3 credits from the courses listed above. Students cannot repeat courses they completed in their Master's degree program. Advisors must approve elective course selections.

Students may also select courses as an elective from other Thai universities or from international universities up to a maximum of 6 credits. Students must seek approval from their advisor for inclusion of these courses in their program.

Thesis **36 credits**
318899 Doctoral Dissertation 36(0-0-108)

Doctor of Philosophy Program in**Environmental Science****Courses Structure**

Students are required to take a minimum of 84 credits comprising the following areas of course work:

Required Courses 24 credits
Elective Courses 12 credits
Thesis 48 credits

Required Courses **24 credits**

301511 Experimental Design and
Statistical Analysis 3(3-0-6)
309537 Environmental Toxicology 3(3-0-6)
313511 Environmental Science and
Technology 2(2-0-4)

313521 Environmental Impact Assessment 3(3-0-6)
313571 Environmental Law 2(2-0-4)
313581 Environmental Economics 2(2-0-4)
313582 Environmental Management 3(3-0-6)
313622 Techniques in Environmental
Quality Analysis 2(2-0-4)
313691 Seminar I 1(0-2-1)
313692 Seminar II 1(0-2-1)
313693 Seminar III 1(0-2-1)
313694 Seminar IV 1(0-2-1)

Elective Courses **12 credits**

223512 Remote Sensing and Application 3(3-0-6)
223513 Geographical Information Systems 3(3-0-6)
309531 Advanced Aquatic Pollution 3(2-3-4)
309532 Advanced Biogeochemistry 3(3-0-6)
309533 Aquatic Biochemistry 3(3-0-6)
309545 Aquatic Toxic Assessment 3(3-0-6)
309561 Advanced Aquatic Ecology 3(3-0-6)
313531 Environmental Chemistry 2(2-0-4)
313532 Genetics and the Environment 2(2-0-4)
313533 Environmental Physics 2(2-0-4)
313534 Microbiology of Environment 2(2-0-4)
313535 Microbiology of Waste Water 2(2-0-4)

313536 Biodegradation and Bioremediation 3(2-3-4)

313537 Water Utilization by Microorganisms 3(2-3-4)

313551 Air Pollution 2(2-0-4)

313552 Noise Pollution 2(2-0-4)

313553 Pollution from Chemicals 2(2-0-4)

313554 Soil Pollution 2(2-0-4)

313555 Food Toxicology 3(3-0-6)

313572 Health Development and Environment 3(3-0-6)

313573 Environmental Engineer 3(3-0-6)

313583 Environmental Quality Management Policy 2(2-0-4)

313584 Water Resources Management 2(2-0-4)

313585 Waste Water Treatment 3(3-2-4)

313586 Pollution Control 2(2-0-4)

313634 Human Ecology 2(2-0-4)

313635 Environmental Physiology 3(3-0-6)

313674 Selected Topics in Environmental Science and Technology I 2(2-0-4)

313675 Selected Topics in Environmental Science and Technology II 2(2-0-4)

313687 Land Use Management 2(2-0-4)

313688 Integrated Solid Waste Management 2(2-0-4)

Students may also select courses as electives from other Thai universities or from international universities up to a maximum of 6 credits. Students must seek approval from their

advisor for inclusion of these courses in their program.

Thesis 48 credits

313799 Doctoral Dissertation 48(0-144-0)

For students with Master's degree, no fewer than 48 credits are required

Required Courses 9 credits

Elective Courses 3 credits

Thesis 36 credits

Required Courses 9 credits

309537 Environmental Toxicology 3(3-0-6)

313571 Environmental Law 2(2-0-4)

313581 Environmental Economics 2(2-0-4)

313693 Seminar III 1(0-2-1)

313694 Seminar IV 1(0-2-1)

Elective Courses 3 credits

Students holding Bachelor's degrees must select no fewer than 3 credits from the courses listed above. Students cannot repeat courses they completed in their Master's degree program. Advisors must approve elective course selections.

Students may also select courses as an elective from Thai universities or from international universities up to a minimum of 6 credits. Students must seek approval from their advisor for inclusion of these courses in their program.

Thesis 36 credits

3133899 Doctoral Dissertation 36(0-0-108)

Graduate School of Commerce

Graduate Diploma Program in

Project Management and Evaluation

Courses Structure

Students are required to take a minimum of 27 credits from the following sections:

Core Courses	24 credits
- Required Courses- Management	12 credits
- Required Courses - Research	6 credits
- Required Courses - Project Evaluation	6 credits
Substantive Report	3 credits

Required Courses – Management 12 credits

224545	Community Study and Social Mobilization for Development	3(3-0-6)
224666	Seminar on Co-operation Between Local Agencies	3(3-0-6)
454503	Production and Operations Management	3(3-0-6)
454606	Entrepreneurship and New Business Venture	3(3-0-6)

Required Courses – Research 6 credits

224546	Research for Monitoring and Evaluation in Regional and Local Development Projects And Programmers	3(3-0-6)
454602	Management Research and Consulting	3(3-0-6)

Required Courses – Project Evaluation

6 credits

224542	Project Planning and Management	3(3-0-6)
454607	Project Management	3(3-0-6)
Substantive Report		3 credits
454697	Substantive Report	3(0-0-9)

Master of Business Administration

Program in International Business

Courses Structure

Plan A : Plan A (2) requires a minimum of 45 credits for the completion of the program. The curriculum consists of three categories of courses.

Core Courses	30 credits
Elective Courses	3 credits
Thesis	12 credits.

Plan B : This program requires a minimum of 45 credits for the completion of the program.

The curriculum consists of three categories of courses.

Core Courses	30 credits
Elective Courses	3 credits
Substitute Courses for Thesis	12 credits.

Plan A

Core Courses 30 credits

451501 Finance Management 3(3-0-6)

452501 Strategic Marketing 3(3-0-6)

453501 Managerial Accounting 3(3-0-6)

454602 Management Research and Consulting 3(3-0-6)

455501 International Business Management 3(3-0-6)

455602 International Human Resource Management 3(3-0-6)

455603 Seminar in International Business Management 3(3-0-6)

455604 International Business Economics 3(3-0-6)

455605 International Trade Law 3(3-0-6)

455517 International Accounting Information Analysis 3(3-0-6)

Elective Courses 3 credits

At least one course selected from the following is required:

454610 Business Logistics Management 3(3-0-6)

455607 International Trade and Investment 3(3-0-6)

455608 International Marketing 3(3-0-6)

455609 International Finance 3(3-0-6)

455611 International Financial Planning and Analysis 3(3-0-6)

455612 International Organization Behavior 3(3-0-6)

455613 International Investment Analysis 3(3-0-6)

455614 Business and Society Ethic 3(3-0-6)

455615 Economical Environment of International Business 3(3-0-6)

455616 International Accounting 3(3-0-6)

455618 International Marketing Management 3(3-0-6)

455619 International Marketing Policy and Strategy 3(3-0-6)

455620 Quantitative Analysis for International Business Decisions 3(3-0-6)

455621 International Financial Management 3(3-0-6)

455622 Cross Culture Management 3(3-0-6)

455623 International Business Negotiation 3(3-0-6)

455624 Global Logistics Management 3(3-0-6)

455625 International Economics 3(3-0-6)

455626 E-Commerce In International Business 3(3-0-6)

455627 Economic Cooperation and International	3(3-0-6)	Elective Courses	12 credits
Thesis		454610 Business Logistics Management	3(3-0-6)
455699 Thesis	12(0-0-36)	455608 International Marketing	3(3-0-6)
Plan B		455609 International Finance	3(3-0-6)
Core Courses	33 credits	455611 International Financial Planning and Analysis	3(3-0-6)
451501 Finance Management	3(3-0-6)	455612 International Organization Behavior	3(3-0-6)
452501 Strategic Marketing	3(3-0-6)	455613 International Investment Analysis	3(3-0-6)
453501 Managerial Accounting	3(3-0-6)	455614 Business and Society Ethics	3(3-0-6)
454602 Management Research and Consulting	3(3-0-6)	455615 Economical Environment of International Business	3(3-0-6)
455501 International Business Management	3(3-0-6)	455616 International Accounting	3(3-0-6)
455602 International Human Resource Management	3(3-0-6)	455618 International Marketing Management	3(3-0-6)
455603 Seminar in International Business Management	3(3-0-6)	455619 International Marketing Policy and Strategy	3(3-0-6)
455605 International Business Economics	3(3-0-6)	455620 Quantitative Analysis for International Business Decisions	3(3-0-6)
455606 International Trade Law	3(3-0-6)	455621 International Financial Management	3(3-0-6)
455517 International Accounting Information Analysis	3(3-0-6)	455623 International Business Negotiation	3(3-0-6)
Substitute Courses for Thesis	12 credits	455625 International Economics	3(3-0-6)
455607 International Trade and Investment	3(3-0-6)	455626 E-Commerce In International Business	3(3-0-6)
455622 Cross Culture Management	3(3-0-6)	455627 Economic Cooperation and International	3(3-0-6)
455624 Global Logistics Management	3(3-0-6)		
455698 Selected Topics in International Business	3(0-0-9)		

Master of Business Administration

Program (For Executive)

Course Structure

The students are required to take a minimum of 45 credits composed of the following areas of courses work:

Core Courses	30 credits
Elective Courses	3 credits
Thesis	12 credits
Substitute Courses for Thesis	12 credits
Core Courses	30 credits
230501 Corporate Leadership Innovations and Changes	3(3-0-6)
230504 Statistics for Business	3(3-0-6)
230505 Economic for Business	3(3-0-6)
230502 Human Resource Management	3(3-0-6)
229502 Managerial Accounting	3(3-0-6)
227501 Managerial Finance	3(3-0-6)
230503 Quality Service & Total Quality Management	3(3-0-6)
228501 Strategic Marketing	3(3-0-6)
230504 Project Management	3(3-0-6)
230609 Strategic Thinking and Competitive Advantage	3(3-0-6)
Elective Courses	3 credits
227601 Investments	3(3-0-6)
227602 Financial Analysis of Accounting Information	3(3-0-6)

227603 Seminar in Financial Management	3(3-0-6)
228601 Marketing strategy	3(3-0-6)
228602 Consumer Behavior	3(3-0-6)
228603 Promotion	3(3-0-6)
228604 Marketing Research	3(3-0-6)
228605 Sales Management	3(3-0-6)
228606 Seminar in Marketing Management	3(3-0-6)
230601 Business law and Taxation	3(3-0-6)
230602 Management Information Systems	3(3-0-6)
230603 Project Management	3(3-0-6)
230604 Organizational Behavior	3(3-0-6)
230605 Industrial Relations	3(3-0-6)
230606 Negotiation Management	3(3-0-6)
230607 International Business Management	3(3-0-6)
230608 Seminar in Management	3(3-0-6)
Thesis	12 credits
230691 Thesis	12(0-0-48)
Substitute Course for Thesis	12 credits
23602 Management Information Systems	3(3-0-6)
228601 Negotiation Management	3(3-0-6)
230603 Project Management	3(3-0-6)
228604 Marketing Research	3(3-0-6)
230610 Selected Topic in Business Administration	3(3-0-6)

Graduate School of Public Administration

Master of Public Administration

Program in General Administration

Course Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Plan A

Core Course	9 credits
Required Courses	12 credits
Elective Courses	6 credits
Thesis	12 credits

Plan B

Core Course	9 credits
Required Courses	12 credits
Elective Courses	6 credits
Substitute Courses for Thesis	12 credits

Core Courses 9 credits

224501 Public Administration Theory
3(3-0-6)

224502 Public Administration
Research Methodology 3(3-0-6)

224503 Statistics for Public
Administration Research 3(3-0-6)

Required Courses 12 credits

224541 Policy and Policy Implementation
3(3-0-6)

224542 Organizational Theory 3(3-0-6)

224543 Human Resource
Administration 3(3-0-6)

224544 Financial and Fiscal
Administration 3(3-0-6)

Elective Courses 6 credits

224551 Special Problems in
Administration 3(3-0-6)

224552 Politics and Bureaucracy 3(3-0-6)

224553 Thai Society and
Economic System 3(3-0-6)

224554 Planning and Project
Management 3(3-0-6)

224555 Project Analysis and
Evaluation 3(3-0-6)

224556 Information System for
Administration 3(3-0-6)

224557 Quantitative Analysis for
Administration 3(3-0-6)

224651 Thai Local Administration 3(3-0-6)

224652 Human Resource
Development 3(3-0-6)

224653 Organizational Development
3(3-0-6)

224654 Development in Thailand 3(3-0-6)

Thesis 12 credits

224691 Thesis 12(0-0-48)

Plan B

Required Courses	2 credits
224541 Policy and Policy Implementation	3(3-0-6)
224542 Organizational Theory	3(3-0-6)
224543 Human Resource Administration	3(3-0-6)
6224544 Financial and Fiscal Administration	3(3-0-6)
Elective Courses	6 credits
224553 Thai Society and Economic Systems	3(3-0-6)
224555 Project Analysis and Evaluation	3(3-0-6)
224556 Information Systems for Administration	3(3-0-6)
224557 Quantitative Analysis for Administration	3(3-0-6)
224651 Thai Local Administration	3(3-0-6)
224652 Human Resource Development	3(3-0-6)
224653 Organizational Development	3(3-0-6)
Substitute Courses for Plan B	12 credits
224551 Special Problems in Administration	3(3-0-6)
224552 Politics and Bureaucracy	3(3-0-6)
224554 Planning and Project Management	3(3-0-6)
224654 Development in Thailand	3(3-0-6)
224655 Ethics for Administrators	3(3-0-6)

Master of Public Administration**Program in Public Policy****Courses Structure**

Students are required to take a minimum of 39 credits comprising the following areas of course work:

Core Courses	9 credits
Area of Concentration Courses	12 credits
Elective Courses	6 credits
Thesis	12 credits

Core Courses 9 credits

224501 Policy Administration Theory	3(3-0-6)
224502 Public Administration Research Methodology	3(3-0-6)
435511 Statistic Method for Research	3(3-0-6)

Area of Concentration Courses 12 credits

224511 Public Policy Making and Analysis	3(3-0-6)
224512 Policy Implementation	3(3-0-6)
224513 Planning and Project Management	3(3-0-6)
224514 Policy Evaluation	3(3-0-6)

Elective Courses 6 credits**Theoretical Thinking Group**

224521 Organization Theory and Behavior	3(3-0-6)
224522 Public Sector Personnel Administration	3(3-0-6)

224523	Economics for Policy Development	3(3-0-6)	224537	Organization Development Techniques	3(3-0-6)
224524	Fiscal Policy for Development	3(3-0-6)	224631	Seminar on Economic and Social Problems in Eastern Thailand	3(3-0-6)
224525	Thailand's Development Policy	3(3-0-6)	224632	Seminar on Urban and Rural Problems in Eastern Thailand	3(3-0-6)
224526	Ethics and Public Policy	3(3-0-6)	224633	Seminar on Public Policy Concerning Environmental Administration in Industrial Areas	3(3-0-6)
224621	Urban Politics and Public Policy	3(3-0-6)	224634	Seminar on Public Policy Concerning Sea Communication and the Connection Transportation System	3(3-0-6)
224622	Rural Politics and Public Policy	3(3-0-6)	224635	Seminar on Public Policy Concerning Administration of Industrial Cities and Port Cities	3(3-0-6)
224623	Politics and Bureaucracy	3(3-0-6)	224636	Seminar on Science Technology and Environmental Policies	3(3-0-6)
224624	Local Administration	3(3-0-6)	224637	Seminar on Thailand's Foreign Policy	3(3-0-6)
224625	Policy of Human Resources Development	3(3-0-6)	Thesis	12 credits	
224626	Public Enterprise Policy	3(3-0-6)	224691	Thesis	12(0-0-48)
	Applied Technique Group				
224531	Data Management for Research in Public Administration	3(3-0-6)			
224532	Information System in Policy Making Process	3(3-0-6)			
224533	Accounting for Public Administration	3(3-0-6)			
224534	Public Marketing	3(3-0-6)			
224535	Special Problems in Public Policy	3(3-0-6)			
224536	Economics of the Bureaucracy	3(3-0-6)			

Plan B : Students must enroll in the following thesis substitute courses.

224535 Special Problems on Public Policy
3(3-0-6)

224525 Thailand's Development Policy
3(3-0-6)

224531 Data Management for Research
in Public Administration 3(3-0-6)

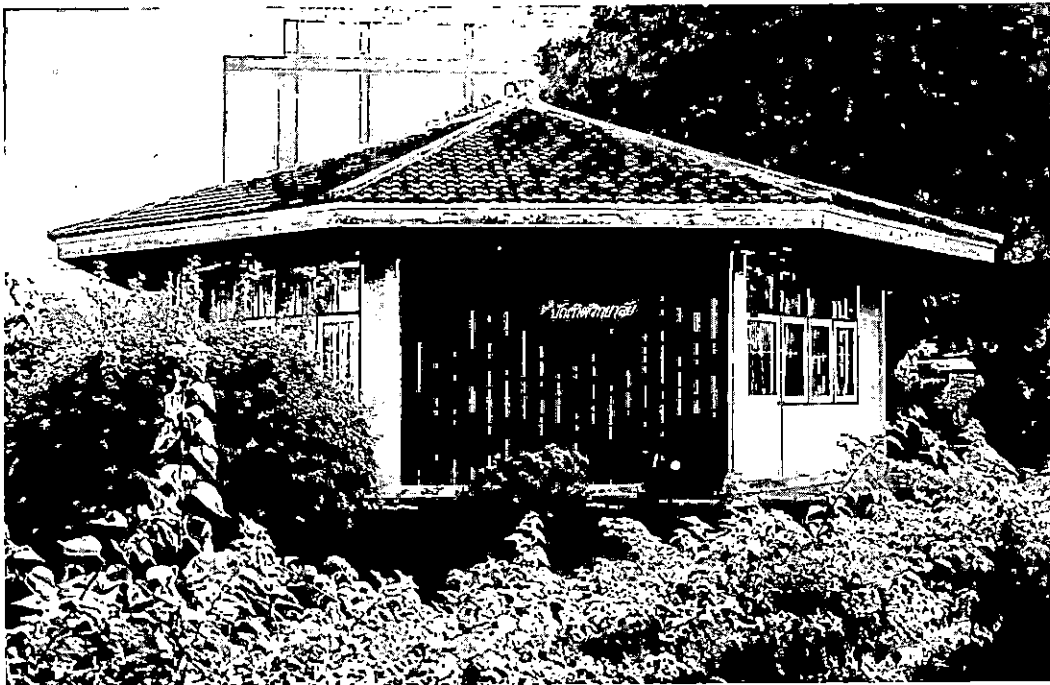
224537 Organization Development
Techniques 3(3-0-6)

224623 Politics and Public Policy 3(3-0-6)

224624 Local Administration 3(3-0-6)

224635 Seminar on Public Policy
Concerning Administration of
Industrial Cities and Port Cities
3(3-0-6)

224637 Seminar on Thailand's Foreign
Policy 3(3-0-6)





บัณฑิตวิทยาลัย

International Graduate Programs

International Graduate Programs

Master of Business Administration

Program (International Program)

Courses Structure

Plan A

Core Courses 30 credits

Elective Courses 3 credits

Thesis 12 credits

Plan B

Core Courses 33 credits

Elective Courses 12 credits

Core Courses 30 credits

227501 Managerial Finance 3(3-0-6)

228501 Strategic Marketing 3(3-0-6)

229501 Financial Planning and Analysis
3(3-0-6)

229502 Managerial Accounting 3(3-0-6)

230501 Management & Organizational
Behavior 3(3-0-6)

230503 Quality Service & Total Quality
Management 3(3-0-6)

230504 Statistics for Business 3(3-0-6)

230505 Economics for Business 3(3-0-6)

230609 Strategic Thinking and Competitive
Advantage 3(3-0-6)

230611 Management Research and
Consulting 3(3-0-6)

Elective Courses 3 credits

At least one course selected from the

following :

General Management

230502 Human Resource Management
3(3-0-6)

230506 Quantitative Analysis for Business
Decisions 3(3-0-6)

230507 Entrepreneurship and New Business
Ventures 3(3-0-6)

230602 Competitiveness Through Information
Management 3(3-0-6)

230603 Project Management 3(3-0-6)

230604 Corporate Leadership Innovation
and Change 3(3-0-6)

230605 Negotiation Management 3(3-0-6)

230606 Seminar in Management 3(3-0-6)

International Business

230701 International Business Management
3(3-0-6)

230702 Cross Cultural Management
3(3-0-6)

230703 International Business Negotiation
3(3-0-6)

230704 Global Business Strategy 3(3-0-6)

230705 Global Logistics Management
3(3-0-6)

230706 International Organizational Behavior
3(3-0-6)

230707 International Economics 3(3-0-6)

230708 International Investment Analysis
3(3-0-6)

Marketing		
228601	Marketing Strategy	3(3-0-6)
228602	Consumer Behavior	3(3-0-6)
228603	International Marketing Management	3(3-0-6)
228604	Marketing Research	3(3-0-6)
228605	Marketing Communication	3(3-0-6)
228606	Seminar in Marketing	3(3-0-6)
228607	Advertising Strategy	3(3-0-6)
228608	Distribution Management	3(3-0-6)

Finance and Accounting		
227601	Investment	3(3-0-6)
227602	Derivative and Corporate Risk Management	3(3-0-6)
227603	Seminar in Finance	3(3-0-6)
227604	Financial Modeling for Decision Support	3(3-0-6)
229503	Cost Accounting	3(3-0-6)
229504	Accounting for Decision Making	3(3-0-6)
229505	Accounting Analysis	3(3-0-6)
229506	Tax Accounting	3(3-0-6)

Thesis		
230691	Thesis	12(0-0-36)

Plan B

Core Courses		
33 credits		
227501	Managerial Finance	3(3-0-6)
228501	Strategic Marketing	3(3-0-6)
229501	Financial Planning and Analysis	3(3-0-6)
229502	Managerial Accounting	3(3-0-6)

230501	Management & Organizational Behavior	3(3-0-6)
230503	Quality Service & Total Quality Management	3(3-0-6)
230504	Statistics for Business	3(3-0-6)
230505	Economics for Business	3(3-0-6)
230609	Strategic Thinking and Competitive Advantage	3(3-0-6)
230610	Selected Topics in Business Administration	3(0-0-9)
230611	Management Research and Consulting	3(3-0-6)

Elective Courses **12 credits**

General Management		
230502	Human Resource Management	3(3-0-6)
230506	Quantitative Analysis for Business Decisions	3(3-0-6)
230507	Entrepreneurship and New Business Venture	3(3-0-6)
230602	Competitiveness through Information Management	3(3-0-6)
230603	Project Management	3(3-0-6)
230604	Corporate Leadership Innovation and Change	3(3-0-6)
230605	Negotiation Management	3(3-0-6)
230606	Seminar in Management	3(3-0-6)
International Business		
230701	International Business Management	3(3-0-6)

230702	Cross Cultural Management	3(3-0-6)
230703	International Business Negotiation	3(3-0-6)
230704	Global Business Strategy	3(3-0-6)
230705	Global Logistics Management	3(3-0-6)
230706	International Organizational Behavior	3(3-0-6)
230707	International Economics	3(3-0-6)
230708	International Investment Analysis	3(3-0-6)
	Marketing	
228601	Marketing Strategy	3(3-0-6)
228602	Consumer Behavior	3(3-0-6)
228603	International Marketing Management	3(3-0-6)
228604	Marketing Research	3(3-0-6)
228605	Marketing Communication	3(3-0-6)
228606	Seminar in Marketing	3(3-0-6)
228607	Advertising Strategy	3(3-0-6)
228608	Distribution Management	3(3-0-6)
	Finance and Accounting	
227601	Investment	3(3-0-6)
227602	Derivative and Corporate Risk Management	3(3-0-6)
227603	Seminar in Finance	3(3-0-6)
227604	Financial Modeling for Decision Support	3(3-0-6)
229503	Cost Accounting	3(3-0-6)

Master of Engineering Program in Engineering Management (International Program)

Course Structure

Students are required to take a minimum of 39 credits comprising of the following areas of course work:

Core Courses	21 credits
Elective Courses	6 credits
Thesis	12 credits
Core Courses	14 credits

550510	Energy Management Engineering	3(3-0-6)
550511	Financial Analysis and Control Systems for Engineer	3(3-0-6)
550512	Information Systems Analysis and Design	3(3-0-6)
550520	Logistics System Analysis	3(2-3-4)
550521	Quality Engineering	3(3-0-6)
550530	Advanced Manufacturing Systems Intergration	3(2-2-5)
5850631	Value Design and Engineering	3(2-2-5)
	Elective Courses	6 credits
	Management of Technology	
550613	Advanced Analytical Methods for Management	3(3-0-6)
550614	Advanced Marketing Management for Engineers	3(3-0-6)
550615	Human Resource Management in Engineering	3(3-0-6)

550616	Advanced Project Management	3(3-0-6)
550617	Case Studies in General Management	3(3-0-6)
550618	Technological Innovation Management	3(3-0-6)
Industrial and Quality Engineering		
550622	Advanced Engineering Economy	3(3-0-6)
550623	Selected Topics in Quality Assurance	3(3-0-6)
550624	Experimentation in Engineering Management	3(3-0-6)
550625	Industrial Systems Simulation	3(3-0-6)
550626	Reliability and Maintenance Management	3(3-0-6)
550627	Methods of Industrial Engineering	3(2-2-5)
550628	Safety Engineering Management	3(3-0-6)
Manufacturing Engineering		
550632	Advanced Production Planning and Scheduling	3(3-0-6)
550633	Engineering Design Optimization	3(3-0-6)
550634	Interdisciplinary Problems in Manufacturing Engineering	3(2-2-5)
550635	Packaging Systems Design	3(3-0-6)
Thesis		12 credits
550699	Thesis	12(0-0-36)

Master of Nursing Science Program in Nursing Administration (International Program)

Courses Structure

Students are required to take a minimum of 40 credits comprising the following areas of course work:

Plan A

Core Courses	9 credits
Major Courses	12 credits
Elective Courses	4 credits
Free Elective Courses	3 credits
Thesis	12 credits

Plan B

Core Courses	9 credits
Major Courses	12 credits
Elective Courses	4 credits
Free Elective Courses	3 credits
Substitute Courses for Thesis	12 credits

Core Courses 9 credits

435511	Statistical methods for Research	3(3-0-6)
104521	Research Methodology in Nursing	2(2-0-4)
104522	Leadership in Nursing	2(2-0-4)
107521	Nursing Theory	2(2-0-4)

Major Courses 12 credits

104533 Nursing Administration I 2(2-0-4)

104534 Nursing Administration II 3(3-0-6)

104535 Nursing Administration III 2(2-0-4)

104536 Nursing Administration IV 3(3-0-6)

104637 Seminar in Nursing
Administration 2(2-0-4)**Elective Courses 4 credits**101627 Advanced Community Nursing
3(3-0-6)101628 Advanced Community
Nursing Practicum 1(0-4-0)102621 Advanced Nursing in Parent
and Newborn Care 3(3-0-6)102622 Advanced Nursing in Parent and
Newborn Care Practicum 1(0-4-0)103621 Advanced Nursing in Adolescent
and Adult Care 3(2-4-3)130622 Advanced Nursing in Adolescent
and Adult Care Practicum 1(0-4-0)106623 Advanced Gerontological
Nursing 3(3-0-6)106624 Advanced Gerontological
Nursing Practicum 1(0-4-0)**Free Elective Courses 3 credits**

Students may also select courses as free electives from faculties in other Thai universities or from international universities up to a minimum of 3 credits. Students must seek approval from their advisor for inclusion of these courses in their program.

Thesis 12 credits

104699 Thesis 12(0-0-36)

Substitute Courses for Thesis 4 credits104639 Nursing Information and
Technology 2(2-0-4)

104642 Nursing Quality Assurance 2(2-0-4)

104698 Inquiry in Nursing (Plan B) 4(0-0-12)

107522 Transcultural Nursing 2(2-0-4)

107624 Nursing Professional Development
2(2-0-4)

Master of Public Health Program (International Program)

Courses Structure

Students are required to take a minimum of 36 credits comprising the following areas of course work:

Plan A

General Education Courses 12 credits

Area of Concentration Courses 9 credits

Free Elective Courses 3 credits

Thesis 12 credits

Plan B

General Education Courses 15 credits

Area of Concentration Courses 9 credits

Free Elective Courses 6 credits

Independent Study 6 credits.

General Education Courses

Plan A	12 credits
Plan B	15 credits
750501 Health Behavior and Social Science	3(3-0-6)
750502 Public Health Administration	3(3-0-6)
750503 Environmental and Occupational Health	3(3-0-6)
750304 Epidemiology and Biostatistic	3(3-0-6)
Plan B	15 credits
750501 Health Behavior and Social Science	3(3-0-6)
750502 Public Health Administration	3(3-0-6)
750503 Environmental and Occupational Health	3(3-0-6)
750304 Epidemiology and Biostatistic	3(3-0-6)
750305 Research Methodology in Public Health	3(2-2-5)
Area of Concentration Courses	9 credits
Environmental Health	
Major Required Courses	6 credits
750510 Environmental Health Policy and Planning	2(2-0-4)
750511 Management and Supervision of Current Environmental Health Issues	2(2-0-4)
750512 Environmental Impact Assessment	2(2-0-4)
Major Elective Courses	3 credits
750513 Water Supply Management	3(3-0-6)
750514 Environmental Microbiology	3(3-0-6)

750515 Wastewater Treatment and Management	3(3-0-6)
750516 Solid Waste Management	3(3-0-6)
750517 Air Pollution Management	3(3-0-6)
Industrial Hygiene and Safety Program	
Major Required Courses	6 credits
750520 Industrial Safety Management and Related Regulation	3(3-0-6)
750521 Principle of Disaster Management	3(3-0-6)
Major Elective Courses	3 credits
750522 Practicum in Health Safety and Environmental	3(1-6-6)
750523 Risk Assessment and Management	3(3-0-6)
750524 Crisis Management	3(3-0-6)
750525 Safety Engineering and Ergonomics	3(3-0-6)
750526 Disaster Prevention and Emergency Medical System	3(2-3-4)
750527 Industrial toxicology and Hazard Management	3(2-3-4)
Public Health Administration	
Major Required Courses	6 credits
750530 Health Policy, Planning, Management and Evaluation	3(3-0-6)
750531 Health Resource Management	3(3-0-6)
Major Elective Courses	3 credits
750532 Health Services and Information System Management	3(3-0-6)

750533	Management Process for Quality of Life	3(3-0-6)
750534	Health Organizational Behavior Epidemiology	3(3-0-6)
Major Required Courses		6 credits
750540	Epidemiological Application for Program Analysis, Planning, Implementation and Evaluation	3(3-0-6)
750541	uses of Computer and MIS for Surveillance in Epidemiological Study	3(3-0-6)
Major Elective Courses		3 credits
750542	Measurements in Epidemiology	3(3-0-6)
750543	Statistic Methods in Epidemiology	3(3-0-6)
750544	Seminar in Epidemiology	3(3-0-6)
750545	Research Methods for Epidemiology	3(3-0-6)
Free Elective Courses		
	Plan A	3 credits
	Plan B	6 credits
750550	International Health	3(3-0-6)
750551	Health Promotion in Changing Society	3(3-0-6)
750552	Medical Anthropology for Health Professional	3(3-0-6)
750553	Computer Technology for Health Care System	3(3-0-6)

750554	Mediation for Health	3(3-0-6)
750555	Integrative Health Care	3(3-0-6)
Thesis		12 credits
750698	Thesis	12(0-0-36)
Independent Study		6 credits
750699	Independent Study	6(0-0-18)

**Doctor of Philosophy Program in
Biological Science
(International Program)**

Course Structure

Students are required to take a minimum of 84 credits comprising the following areas of course work:

Required Courses	16 credits
Elective Courses	20 credits
Thesis	48 credits

Required Courses 16 credits

301511	Experimental Design and Statistical Analysis	3(3-0-6)
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306511	Cell and Molecular Biology	3(3-0-6)
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316511	Advanced Biochemistry	3(3-2-4)
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318691	Seminar I	1(0-2-1)
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318692	Seminar II	1(0-2-1)
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318793	Seminar III	1(0-2-1)
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318794	Seminar VI	1(0-2-1)
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Elective Courses 20 credits

Microbiology

305512	Fundamental of Immunology	2(2-0-4)
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305513	General Virology	3(2-3-4)	318712	Selected Topics in Bioscience II	
305514	Selected Topics in Microbial Genetics	3(3-0-6)			2(2-0-4)
305601	Advanced Bacterial Physiology	3(2-3-4)		Zoology	
305602	Advanced Yeast and Fungal Physiology	3(2-3-4)	306531	Advanced Animal Taxonomy	3(2-3-4)
305603	Advanced Microbial Genetics	3(2-3-4)	306532	Advanced Animal Physiology	3(2-3-4)
305604	Selected Topics in Microbiology I	2(2-0-4)	306533	Comparative Endocrinology	3(2-3-4)
305605	Selected Topics in Microbiology II	2(2-0-4)	306534	Animal Ecology	3(2-3-4)
305606	Microbiological Techniques	3(2-3-4)	306535	Zoogeography	3(2-3-4)
305607	Applied Microbiological	3(2-3-4)	306536	Protozoology	3(2-3-4)
305608	Advanced Immunology	3(3-0-6)	306538	Malacology	3(2-3-4)
305609	Advanced Virology	3(3-0-6)	306539	Crustacean Biology	3(2-3-4)
305611	Microbial Products	3(2-3-4)	306631	Medical and Veterinary Entomology	3(2-3-4)
305631	Microbial Ecology	3(2-3-4)	306632	Ichthyology	3(2-3-4)
305632	Marine and Estuarine Microbiology	3(2-3-4)	305533	Ornithology	3(2-3-4)
305633	Biodegradation and Bioremediation	3(2-3-4)	306634	Mammalogy	3(2-3-4)
305634	Waste Utilization by Microorganisms	3(2-3-4)	306635	Animal Microtechniques	3(2-3-4)
305635	Soil and Agricultural Microbiology	3(2-3-4)	306636	Selected Topics in Zoology	2(2-0-4)
305651	Microbial Enzyme Technology	3(2-3-4)	318711	Selected Topics in Bioscience I	2(2-0-4)
318711	Selected Topics in Bioscience I	2(2-0-4)	318712	Selected Topics in Bioscience II	2(2-0-4)
				Biotechnology	
			307511	Advanced Biotechnology	3(2-3-4)
			307612	Biotechnology Design	3(2-3-4)
			307613	Selected Topics in Biotechnology I	

307614	Selected Topics in Biotechnology II	2(2-0-4)
307632	Color and Flavor Technology	3(2-3-4)
307652	Fermentation Process	3(2-3-4)
307653	Alcoholic Beverage Production Technology	3(2-3-4)
318711	Selected Topics in Bioscience I	2(2-0-4)
318712	Selected Topics in Bioscience II	2(2-0-4)
	Marine Biology	
309521	Crustacean Biology	3(2-3-4)
309522	Marine Mollusk Biology	3(2-3-4)
309543	Advanced Biological Oceanography	3(3-0-6)
309561	Advanced Aquatic Ecology	3(3-0-6)
309563	Mangrove Ecology	3(2-3-4)
309564	Coral Reef Ecology	3(3-2-4)
309565	Benthic Ecology	3(3-2-4)
309623	Marine Vertebrate Zoology	3(3-0-6)
309624	Marine Animal Physiology	3(2-3-4)
309625	Marine Animal Endocrinology	3(3-0-6)
318711	Selected Topics in Bioscience I	2(2-0-4)
318712	Selected Topics in Bioscience II	2(2-0-4)

	Biochemistry and Biophysics	
316512	Metabolism and Regulation	3(2-0-6)
316513	Advanced Protein Biochemistry	3(3-0-6)
316514	Advanced Lipid Biochemistry	3(3-0-6)
316515	Advanced Nutritional Biochemistry	3(2-3-4)
316522	Experiments on Metabolism and Regulation	2(2-0-4)
316691	Spicial Research Project in Biochemistry	3(0-9-0)
316531	Membrane Biophysics	3(3-0-6)
316532	Molecular Biophysics	3(3-0-6)
316633	Free Radicals in Biology and Medicine	3(3-0-6)
316634	Radiophamaceutics	3(3-0-6)
316635	Selected Topics in Biophysics	2(2-0-4)
318711	Selected Topics in Biophysics I	2(2-0-4)
318712	Selected Topics in Biophysics II	2(2-0-4)

Students may select no more than 3 credits from other subject areas. Students may also select courses as electives from other Thai universities or from international universities up to a maximum of 6 credits. Student must seek approval from their advisor for inclusion of these courses in their program.

Thesis	48 credits
318799 Doctoral Dissertation	48(0-144-0)

For students with Master's degree, no fewer than 48 credits are required.

Required courses	2 credits
Elective courses	10 credits
Thesis	36 credits

Required Courses 2 credits

318793 Seminar III 1(0-2-1)

318794 Seminar IV 1(0-2-1)

Elective Courses 2 credits

Students holding Bachelor's degrees must select no fewer than 3 credits from the courses listed above. Students cannot repeat courses they completed in their Master's degree program. Advisors must approve elective course selections.

Students may also select courses as an elective from other Thai universities or from international universities up to a maximum of 6 credits. Students must seek approval from their advisor for inclusion of these courses in their program.

Thesis	36 credits
318899 Doctoral Dissertation	36(0-0-108)

**Doctor of Philosophy Program
in Environmental Science
(International Program)**

Courses Structure

Students are required to take a minimum of 84 credits comprising the following areas of course work:

Required Courses	24 credits
Elective Courses	12 credits
Thesis	48 credits
Required Courses	24 credits

301511 Experimental Design and
Statistical Analysis 3(3-0-6)

309537 Environmental Toxicology 3(3-0-6)

313511 Environmental Science and
Technology 2(2-0-4)

313521 Environmental Impact Assessment
3(3-0-6)

313571 Environmental Law 2(2-0-4)

313581 Environmental Economics 2(2-0-4)

313582 Environmental Management 3(3-0-6)

313622 Techniques in Environmental
Quality Analysis 2(2-0-4)

313691 Seminar I 1(0-2-1)

313692 Seminar II 1(0-2-1)

313693 Seminar III 1(0-2-1)

313694 Seminar IV 1(0-2-1)

Elective Courses 12 credits

223512 Remote Sensing and Application	3(3-0-6)
223513 Geographical Information Systems	3(3-0-6)
309531 Advanced Aquatic Pollution	3(2-3-4)
309532 Advanced Biogeochemistry	3(3-0-6)
309533 Aquatic Biochemistry	3(3-0-6)
309545 Aquatic Toxic Assessment	3(3-0-6)
313531 Environmental Chemistry	2(2-0-4)
313532 Genetics and the Environment	2(2-0-4)
313533 Environmental Physics	2(2-0-4)
313534 Microbiology of Environment	2(2-0-4)
313535 Microbiology of Waste Water	2(2-0-4)
313536 Biodegradation and Bioremediation	3(2-3-4)
313537 Water Utilization by Microorganisms	3(2-3-4)
313551 Air Pollution	2(2-0-4)
313552 Noise Pollution	2(2-0-4)
313553 Pollution from Chemicals	2(2-0-4)
313554 Soil Pollution	2(2-0-4)
313555 Food Toxicology	3(3-0-6)
313572 Health Development and Environment	3(3-0-6)
313573 Environmental Engineer	3(3-0-6)
313583 Environmental Quality Management Policy	2(2-0-4)

313584 Water Resources Management	2(2-0-4)
313585 Waste Water Treatment	3(3-2-4)
313586 Pollution Control	2(2-0-4)
313634 Human Ecology	2(2-0-4)
313635 Environmental Physiology	3(3-0-6)
313674 Selected Topics in Environmental Science and Technology I	2(2-0-4)
313675 Selected Topics in Environmental Science and Technology II	2(2-0-4)
313687 Land Use Management	2(2-0-4)
313688 Integrated Solid Waste Management	2(2-0-4)

Students may also select courses as electives from other Thai universities or from international universities up to a maximum of 6 credits. Students must seek approval from their advisor for inclusion of these courses in their program.

Thesis 48 credits

313799 Doctoral Dissertation	48(0-144-0)
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For students with Master's degree, no fewer than 48 credits are required

Required Courses	9 credits
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Elective Courses	3 credits
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Thesis	36 credits
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Required Courses 9 credits

309537 Environmental Toxicology	3(3-0-6)
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313571 Environmental Law	2(2-0-4)
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313581 Environmental Economics	2(2-0-4)
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313693 Seminar III	1(0-2-1)
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Burapha University

Faculty Members

Faculty of Education

Department of Curriculum and Instruction

1. Bumreraj, Nalinee Asst. Prof. M.Ed. (Teaching Thai Language), Chulalongkorn Univ.
2. Bumreraj, Sunthorn Asst. Prof. Ed.D. (Curriculum and Instruction), West Virginia Univ., U.S.A.
3. Chotipadit, Sutthapha Lecturer M.Ed. (Early Childhood Education), Srinakharinwirot Univ.
4. Jaturanond, Vimolrat Lecturer M.Ed. (Elementary), Chulalongkorn Univ.
5. Petchurn, Arom Asst. Prof. Ed. D. (Science Education), Univ. of Northern Colorado, U.S.A.
6. Prasonngern, Somprasong Lecturer M.Ed. (Supervisions and Curriculum Development), Chulalongkorn Univ.
7. Petchrat, Alisa Lecturer M.Ed. (Elementary), Chulalongkorn Univ.
8. Srisopaporn, Suchart Lecturer M.Ed. (Educational Science), Sranakharinwirot Univ.
9. Kamkhum, Natamon Lecturer M.Ed. ((Elementary), Chulalongkom Univ.
10. Kitiyanuson, Roengfa Lecturer M.Ed. (Early Childhood Education), Burapha Univ.
11. Thongsarn, Parinya Lecturer M.A. (Science Teaching), Kasetsart Univ.
12. Jenjit, Apunchanit Lecturer M.A. (Mathematics Teaching), Kasetsart Univ.
13. Suratruendchai, Vichit Assoc. Prof. Ed.D. (Research and Curriculum Development), Sranakharinwirot Univ.

Department of Educational Administration

1. Rodprasert, Prachoom Assoc. Prof. Ed.D. (Educational Administration), Oklahoma State Univ., U.S.A.
2. Manisri, Chari Assoc. Prof. M.Ed. (Educational Administration), M.S. University of Baroda
3. Suntrayuth, Dhorn Asst. Prof. Ph.D. (Higher Educational Administration and Administrative Leadership), North Texas State Univ.

- | | | |
|------------------------------|----------|---|
| 4. Sompongtaṃ, Prasert | Lecturer | Ph.D. (Educational Administration), Chulalongkorn Univ. |
| 5. Niyomsrisomsak, Sittiporn | Lecturer | Ed.D. (Educational Administration), Northern Philippines |
| 6. Chanchaem, Nuanpachong | Lecturer | Ph.D. (Education Community and Human Resources with a specialization in Career Education) |

Department of Educational Foundation

- | | | |
|-------------------------|--------------|---|
| 1. Chaoha, Vachira | Assoc. Prof. | Ph.D. (Educational Administration), Srinakharinwirot Univ., Prasarnmitr |
| 2. Kosaiyawut, Suwichai | Lecturer | M.Ed. (Foundation of Education), Chulalongkorn Univ. |
| 3. Meekun, Sriwan | Lecturer | Ph.D. (Development Education) Centra Lurzon State Univ., Philippines |
| 4. Mapudh, Chunchalee | Lecturer | Ph.D. (Development Education), Chulalongkorn Univ. |

Department of Educational Technology

- | | | |
|-------------------------|--------------|---|
| 1. Chaoha, Wasama | Asst. Prof. | M.Ed. (Educational Technology), Srinakharinwirot Univ. |
| 2. Jitstaporn, Somsit | Assoc. Prof. | M.Ed. (Educational Technology), Srinakharinwirot Univ. |
| 3. Palitawanont, Nanta | Lecturer | Ph.D. (Computer-Based Education), Univ. of North Texas, U.S.A. |
| 4. Sookpreedee, Ladda | Assoc. Prof. | M.Ed. (Audio-Visual Education), Srinakharinwirot Univ. |
| 5. Tubsri, Chalong | Assoc. Prof. | Ed.D. (Instructional Systems Technology), Indiana Univ., U.S.A. |
| 6. Yamkasikorn, Montree | Asst. Prof. | M.Ed. (Educational Technology), Srinakharinwirot Univ. |
| 7. Hokuwan, Pongprasert | Assoc. Prof. | Ed.D. (Educational Technology), Srinakharinwirot Univ. |

Department of Guidance and Educational Psychology

- | | | |
|------------------------|--------------|---|
| 1. Boonruang, Phaka | Assoc. Prof. | M.Ed. (Guidance), Srinakharinwirot Univ., Prasarnmitr |
| 2. Boonruang, Somkid | Asst. Prof. | Ph.D. (Educational Psychology), Chulalongkorn Univ. |
| 3. Chayrimol, Rapin | Lecturer | Ph.D. (Educational Psychology), Chulalongkorn Univ. |
| 4. Chitchutvong, Vinee | Assoc. Prof. | M.Ed. (Guidance), Srinakharinwirot Univ., Prasarnmitr |
| 5. Kanawan, Keawta | Assoc. Prof. | Ph.D. (Child Development / Curriculum and Instruction), Cornell University, U.S.A. |
| 6. Wisessuwan, Anong | Lecturer | Ed.D. (Curriculum and Instruction / Educational Psychology), Univ. of Northern Colorado, U.S.A. |
| 7. Sutassanee, Somporn | Assoc. Prof. | Ph.D. (Educational Psychology), Chulalongkorn Univ. |
| 8. Purananon, Doldao | Lecturer | M.Sc. (Counseling Psycholog), Burapha Univ. |

Department of Non-formal Education

- | | | |
|------------------------|--------------|---|
| 1. Jumkrajang, Sommai | Asst. Prof. | Ph.D. (Higher and Adult Education), Univ. of Missouri, U.S.A. |
| 2. Muongmee, Suchinda | Asst. Prof. | M.A. (Adult Education), The Ohio State Univ., U.S.A. |
| 3. Sungkchad, Kochgorn | Assoc. Prof. | Ed.D. (Adult Education), Mississippi State Univ., U.S.A. |

Department of Physical Education and Recreation

- | | | |
|-----------------------------|--------------|---|
| 1. Laorieum, Sayan | Asst. Prof. | M.Ed. (Physical Education), Chulalongkorn Univ., |
| 2. Chansamut, Cherchai | Lecturer | M.Ed. (Physical Education), Srinakharinwirot Univ., Prasarnmitr |
| 3. Haesuwan, Komwajee | Lecturer | M.Ed. (Physical Education), Chulalongkorn Univ. |
| 4. Muangmee, Pratoom | Assoc. Prof. | Ph.D. (Exercise Physiology), The Ohio State Univ., U.S.A. |
| 5. Porntepkasemsant, Rumpan | Asst. Prof. | M.P.H. (Public Health), Univ. of Philippines |
| 6. Puranawit, Satian | Lecturer | M.Ed. (Physical Education), Srinakarinwitot Univ. |
| 7. Nakhankhup, Chirapa | Lecturer | M.Sc. (Sports Medicine), Chulalongkorn Univ. |
| 8. Sootmongrol, Anek | Lecturer | M.Ed. (Physical Education), Srinakarinwitot Univ. |
| 9. Srisuksawasdi, Penchan | Lecturer | M.Ed. (Physical Education), Chulalongkorn Univ. |

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|------------------------------|-------------|--|
| 10. Thaikao, Boonma | Asst. Prof. | M.Ed. (Physical Education), Chulalongkorn Univ. |
| 11. Vongjatturapat, Naruepon | Asst. Prof. | Ph.D. (Sport Psychology), Oregon State Univ., U.S.A. |
| 12. Ingkatecha, Onwaree | Lecturer | B.Sc. (Sport Science), Mahidol Univ. |

Department of Research and Measurement in Education

- | | | |
|--------------------------|-------------|---|
| 1. Chadcham, Seree | Lecturer | Ph.D. (Educational Measurement and Evaluation),
Chulalongkorn Univ. |
| 2. Kornpetpanee, Suchada | Lecturer | M.Ed. (Education Research), Chulalongkorn Univ. |
| 3. Lila, Somsak | Lecturer | Ph.D. (Research and Development Curriculum),
Srinakharinwirot Univ., Prasarnmitr |
| 4. Anegsukha, Sompoch | Lecturer | Ph.D. (Research and Development Curriculum),
Srinakharinwirot Univ., Prasarnmitr |
| 5. Wongnam, Pairat | Asst. Prof. | Ph.D. (Educational Research and Measurement),
Chulalongkorn Univ. |
| 6. Sirimar, Sureeporn | Lecturer | M.Ed. (Educational Measurement and Evaluation),
Chulalongkorn Univ. |

Department of Industrial Education Establishment Project

- | | | |
|----------------------|----------|---|
| 1. Jamkrajang, Manap | Lecturer | Ph.D. (Industrial Education), Univ. of Missouri
Columbia, U.S.A. |
| 2. Thongin, Dan | Lecturer | M.Eng. (Mechanical Engineering), King Mongkut's
Institute of Technology, North Bangkok |

Faculty of Engineering

Department of Chemical Engineering

1. Ruengphrathuengsuka, Wirogana Asst. Prof. Ph.D. (Chemical Engineering), Texas A&M Univ., U.S.A.,
2. Manasilp, Akkarat Lecturer Ph.D. (Chemical Engineering), Univ. of Michigan, Ann Arbor, U.S.A.
3. Jarusiripot, Chutima Lecturer M.Sc. (Chemical Engineering), Univ. of Delaware, U.S.A.
4. Deepatana, Anat Lecturer M.Sc. (Chemical Engineering), Syracuse Univ., U.S.A.
5. Yimsiri, Piyachat Lecturer M.Sc. (Chemical Engineering), Texas A&M Univ., U.S.A.
6. Chinwanitchareon, Charoen Lecturer M.Eng. (Chemical Engineering), Kanazawa Univ., Japan
7. Boonruam, Patiparn Lecturer M.Sc. (Chemical Engineering), Univ. of Melbourne, Australia
8. Kawharee, Chaiwat Lecturer M. Eng. (Chemical Engineering), Kasetsart Univ.
9. Tonkityanon, Voranee Lecturer M.Eng. (Chemical Engineering), Chulalongkorn Univ.
10. Soisuwan, Patta Lecturer M. Eng. (Chemical Engineering), Chulalongkorn Univ.
11. Sithikityothin, Wancheng Lecturer M.Eng. (Chemical Engineering), King Mongkut's Univ. of Technology Thonburi

Department of Civil Engineering

1. Tippayatharathon, Visit Lecturer M. Eng. (Water Resource Engineering), Khon Kaen Univ.
2. Wongkew, Arnon Lecturer Ph.D. (Structural Engineering), Univ. of Michigan, Ann Arbor, U.S.A.
3. Yimsiri, Siam Lecturer Ph.D. (Soil Engineering), Cambridge Univ., England
4. Jeevagat, Ittichai Lecturer M. Eng. (Civil Engineering), Univ. of Florida, U.S.A.
5. Tungsiriwattanakul, Prawat Lecturer M.Eng. (Civil Engineering), Chulalongkorn Univ.

- | | | |
|-----------------------------|----------|--|
| 6. Sriviriyarat, Thongchai | Lecturer | M.Eng. (Environmental Engineering), Virginia Polytechnic Institute , U.S.A. |
| 7. Sumranwanich, Taweechai | Lecturer | M.Eng. (Structural Engineering), Sirinhorn International Institute of Technology |
| 8. Indra-payong, Nakorn | Lecturer | M.Eng. (Transportation Engineering), King Mongkut's Univ. of Technology Thonburi |
| 9. Rasmeemasuang,Thamnoon | Lecturer | M.Eng. (Coastal Engineering), Asian Institute of Technology |
| 10. Phothiruksanon, Phurika | Lecturer | M.Eng. (Soil Engineering), Asian Institute of Technology |
| 11. Bunkrapue, Noppakul | Lecturer | M.Eng. (Transportation Engineering), Asian Institute of Technology |

Department of Industrial Engineering

- | | | |
|----------------------------------|----------|--|
| 1. Somsirikarnjanakoon, Theerawa | Lecturer | M. Eng. (Industrial Engineering), Chulalongkorn Univ. |
| 2. Lila, Banhan | Lecturer | Ph.D. (Industrial Engineering), Clemson Univ., U.S.A. |
| 3. Chantrasa, Ruephuwan | Lecturer | M.Eng. (Industrial Engineering), Chulalongkorn Univ. |
| 4. Kunadilok, Jakrawarn | Lecturer | M.Eng. (Industrial Engineering), Chulalongkorn Univ. |
| 5. Nakvachiratrakul, Chantra | Lecturer | M.Eng. (Industrial Engineering), Chulalongkorn Univ. |
| 6. Pontree, Chanchai | Lecturer | M.Eng. (Manufacturing Engineering, King Mongkut's Technology. |
| 7. Prasopchaichana, Krisada | Lecturer | M.Eng. (Engineering Management), Burapha Univ. |
| 8. Jantasri, Somsaeng | Lecturer | M.Eng. (Manufacturing Engineering), King Mongkut's Univ. of Technology |
| 9. Ariyajanya, Bancha | Lecturer | B. Eng. (Industrial Engineering), Burapha Univ. |
| 10. Sookasem, Rosemarin | Lecturer | B. Eng. (Industrial Engineering), Burapha Univ. |

Department of Electrical Engineering

- | | | |
|----------------------------|----------|---|
| 1. Chitsupap, Bantom | Lecturer | M.Eng. (Electrical Engineering) King Mongkut's Institute of Technology, North Bangkok |
| 2. Lekngam, Surachat | Lecturer | M. Eng. (Electronics), King Mongkut's Institute of Technology, Ladkrabang Bangkok |
| 3. Boonsongsrikul, Anuparp | Lecturer | M. Eng. (Electrical Engineering), Kasetsart Univ. |
| 4. Wiriyakitja, Wisaruda | Lecturer | M. Eng. Sc. (Electrical Engineering), Adelaide Univ. |
| 5. Thammawaja, Siriporn | Lecturer | B.Sc. (Computer Science), Burapha Univ. |
| 6. Wongianta, Pranee | Lecturer | M.Eng. (Electrical Engineering), Kasetsart Univ. |
| 7. Sayjai, Jesada | Lecturer | B.Eng. (Electronics), King Mongkut's Institute of Technology, Ladkrabang Bangkok |
| 8. Kurukitson, Nayot | Lecturer | M.Eng.Sc. (Electrical Engineering), Univ. of New South Wales |
| 9. Suppharangsarn, Somjet | Lecturer | M.Sc. (Electrical & Computer Engineering), Purdue Univ. |
| 10. Sriboriruk, Wiroon | Lecturer | B.Eng. (Computer), Prince of Songkla Univ. |

Department of Mechanical Engineering

- | | | |
|----------------------------|----------|---|
| 1. Suksuntornsiri, Pawinee | Lecturer | M.Eng. (Energy Technology), Asian Institute of Technology |
| 2. Limpitipanich, Paiboon | Lecturer | M.Eng. (Mechanical Engineering), Chiang Mai Univ. |
| 3. Pirompugdee, Worachest | Lecturer | M.Eng. (Mechanical Engineering), KMUTT. |
| 4. Prasopchingchana, Uthai | Lecturer | M.Eng. (Mechanical Engineering), Chulalongkorn Univ. |
| 5. Leerijit, Theerayut | Lecturer | M.Eng. (Mechanical Engineering), Chulalongkorn Univ. |

Faculty of Fine and Applied Arts

1. Buakaew, Chakkrit	Lecturer	B.F.A. (Creative Arts), Chulalongkorn Univ.
2. Karuekarat, Renoo	Asst. Prof.	M.A. (Painting), Silpakorn Univ.
3. Panthupakorn, Poradee	Asst. Prof.	M.A. (Historical Archaeology), Silpakorn Univ.
4. Pinpart, Chuchart	Lecturer	B.Ed. (Music Education), Srinakharinwirot Univ., Prasarnmitr
5. Sawandsuk, Papaspol	Lecturer	M.Ed. (Higher Education), Ramkhamhaeng Univ.
6. Somthai, Pitiwat	Lecturer	M.F.A. (Graphic Arts), Silpakorn Univ.
7. Suppasri, Saman	Lecturer	M.Ed. (Art Education), Chulalongkorn Univ.
8. Suwannipa, Pakamas	Lecturer	M.F.A. (Graphic Arts), Silpakorn Univ.
9. Thanavanichagul, Chumnong	Lecturer	M.F.A. (Painting), Silpakorn Univ.
10. Thaothong, Suchat	Assoc. Prof.	M.F.A. (Painting), Visvabharati Santiniketan, India
11. Thaothong, Suvichan	Lecturer	M.F.A. (Painting), Silpakorn University
12. Thongnopkoon, Thepsakdi	Lecturer	M.F.A. (Graphic Arts), Silpakorn University
13. Tonyapirom, Sakesan	Lecturer	B.Sc. (Ceramic Technology), Pranakorn Teachers College
14. Nuchitsiripattra, Supit	Lecturer	M.F.A. (Interior Architecture), King Mongkut's Institute of Technology, Ladkrabang
15. Sangsubchart, Kritsda	Lecturer	M.F.A. (Modern Arts), Srinakharinwirot Univ.
16. Khochprasert, Jantana	Lecturer	M.A. (Music Education), Mahidol Univ.
17. Dejkhamrone, Sanit	Lecturer	M.F.A. (Conducting), St. Petersburg State Academy of Culture
18. V.wattananuwat, Chaiyode	Lecturer	M.F.A. (Technology), King Mongkut's Institute of Technology, North Bangkok.

Faculty of Humanities and Social Sciences

Department of Business Administration

1. Chanasit, Jantana Lecturer M. of Accountancy (Finance Accounting), Chulalongkorn Univ.
2. Lertbuasin, Supasit Lecturer M.B.A. (Finance), Oklahoma City Univ.
3. Choochinprakarn, Naruemon Lecturer M.B.A., Central Queensland Univ.
4. Nontasak, Patchanee Asst. Prof. M.B.E. (Business Education), Univ. of Montevallo, U.S.A.
5. Rackchart, Sompol Lecturer M.B.A., Murray State Univ.
6. Sivamas, Chanchala Lecturer M.B.A. (Finance) Univ. of Denver
7. Soonthornsmai, Vuttichat Asst. Prof. D.B.A. (Marketing), Nova Southern Univ.
8. Nontakaew, Kanvalai Lecturer B.B.A. (Personnel), Burapha Univ.
9. Suwannapirom, Suda Asst. Prof. M.Com. (Personnel Management), NIDA
10. Chusak, Chaikiat Lecturer M.B.A. (Marketing), National Institute of Development Administration
11. Pratomsrimek, Somsak Lecturer M.Sc. (Accounting), Thammasart Univ.
12. Setarnawat, Sakchai Lecturer B.B.A. (Hotel and Tourism Management), Khon Kaen Univ.
13. Siripongwattana, Chalaporn Lecturer B.B.A. (Business Education), Burapha Univ.
14. Siriwaiprapan, Somsri Lecturer Ed.D. (Human Resources Development), The George Washington Univ.

Department of Oriental Languages

1. Arthornturasook, Pansek Lecturer M.of Literature (Japanese Linguistics and Pedagogy), Kanda Univ. of International Studies
2. Jitpenthom, Uraiwan Lecturer M.A. (Korean Linguistics), Chungnam National Univ.
3. Leepiyachart, Narumol Asst.Prof. M.A. (Japanese), Keio Univ.,
4. Mahakhan, Nanchaya Lecturer M.A. (Japanese Literature), Kobe Univ.
5. Maneelarp, Daranee Lecturer M.A. (Modern Chinese), Beijing Language and Culture Univ.

6. Kunpattaranirun, Wanwisa	Lecturer.	B.A. (Japanese), Chiang Mai Univ.
7. Larprungrueng, Soontaree	Lecturer	B.A. (English), Burapha Univ.
8. Limthawaranun, Wilai	Lecturer	M.A. (Modern Chinese), Beijing Language and Culture Univ.
9. Phiromloetamorn Phoommarin	Lecturer	B.Ed. (Chinese), Rajabhat Institute
10. Sarojna, Kanokwan	Lecturer	M.A. (Korean Linguistics), Chungnam National Univ.
11. Sriyanalug, Kanokporn	Lecturer	B.A. (Chinese), Burapha Univ.
12. Wattananitikul, Thunyarat	Lecturer	Master Program in Japanese Linguistics, Reitaku Univ.
13. Pimpakiiian, Pimwarin	Lecturer	B.A. (Chinese), Burapha Univ.

Department of Economics

1. Aeupiyachat, Wilai	Lecturer	Ph.D. (Economic), Univ. of Wollongong
2. Chunsiripong, Chutarat	Lecturer	M.Sc.(Agricultural Economic), Kasetsart Univ.
3. Mahavorasilpa, Noranon	Lecturer	M.Econ. (Economic), Thammasat Univ.
4. Sairangsri, Saovarin	Lecturer	M.Econ. (Economic), Thammasat Univ.
5. Labchumsri, Panta	Lecturer.	M.S. (Business economic), Kasetsart Univ.

Department of Geography

1. Dechpromphun, Somchai	Assoc. Prof.	M.Ed. (Geography), College of Education
2. K. Buakasorn, Autcha	Asst. Prof.	M.Sc. (Geography), Ramkhamhaeng, Univ.
3. Nu-Im, Booncherd	Asst. Prof.	M.Sc. (Environmental Science), Kasetsart University
4. O-Phasawan, Tassawi	Lecturer	M.Ed. (Geography), College of Education
5. Phrumphrun, Kriangsak	Lecturer	M.Sc. (Geography), Ramkhamhaeng, Univ.
6. Soyong, Phattrapom	Lecturer	Master of Urban and Regional Planning (Urban and Environmental Planning)
7. Vorasayan, Meechai	Assoc. Prof.	M.Ed. (Geography), College of Education

Department of History

1. Chakandang, Charan	Asst. Prof.	Ph.D. (History), Pennsylvania State Univ.
2. Chanamool, Sopha	Lecturer	M.A. (History), Thammasat Univ.
3. Kanthacheep, Sarunya	Lecturer	M.A. (History), Silpakorn Univ.

- | | | |
|------------------------|--------------|---------------------------------------|
| 4. Ketkamon, Mattana | Assoc. Prof. | D.A. (History), Illinois State Univ. |
| 5. Limpanart, Ruengwit | Lecturer | M.A. (History), Chulalongkorn Univ. |
| 6. Worasayan, Supatsri | Assoc. Prof. | M.Ed. (History), College of Education |

Department of Library Science

- | | | |
|---------------------------|-------------|---|
| 1. Intanin, Paipan | Asst. Prof. | M.Ed. (Library) Srinakharinwirot Univ. |
| 2. Pleehajinda, Tiphha | Lecturer | M.A. (Library and Information Science),
Chulalongkorn Univ. |
| 3. Kittiprasan, Lalita | Lecturer | M.Ed. (Library), Srinakharinwirot Univ. |
| 4. Kongpradit, Kusawat | Lecturer | M.A. (Library and Information Science),
Srinakharinwirot Univ. |
| 5. Pisalphong, Kwanchadil | Lecturer | D.A. (Library and Information Science), Simmon
College |
| 6. Prasarnphanich, Rojana | Lecturer | M.A. (Library and Information Science),
Srinakharinwirot Univ. |
| 7. Unchitti, Doungkamol | Lecturer | M.A. (Library and Information Science),
Srinakharinwirot Univ. |

Department of Psychology

- | | | |
|-----------------------------|----------|--|
| 1. Bunpiem, Sakdina | Lecturer | M.Sc. (Behavioral Science), Srinakharinwirot |
| 2. Dhamacharoen, Sang-Aroon | Lecturer | M.Ed. (Social Psychology), Univ. of Colorado |
| 3. Saetang, Duangduen | Lecture | M.Sc. (Behavioral Science), Srinakharinwirot |

Department of Political Science

- | | | |
|------------------------|-------------|---|
| 1. Boonwises, Supot | Asst. Prof. | M.P.A. (Political Science), National Institute of
Development Administration |
| 2. Skunrat, Saroot | Assoc.Prof | M.A. (International Relation and Diplomacy),
Thammasat Univ. |
| 3. Yossomsakdi, Samrit | Lecturer | Ph.D. (Political Science), Northern Illinois University |
| 4. Praditsil, Chaiyon | Lecturer | Ph.D. (Political Science), Chulalongkorn Univ. |

Department of Sociology

- | | | |
|-------------------------|-------------|--|
| 1. Haphon, Porntip | Lecturer | M.S. (Community Development), Thammasart Univ. |
| 2. Kaopradith, Supattra | Lecturer | M.S.W. (Medical Social Work), Thammasart Univ. |
| 3. Panrob, Boonderm | Assoc.Prof. | M.A. (Sociology), Chulalongkorn Univ. |
| 4. Sangsuriyong, Rewat | Lecturer | M.A. (Sociology), Chulalongkorn Univ. |
| 5. Suwanlaong, Sunate | Lecturer | M.A. (Sociology), Chulalongkorn Univ. |

Department of Thai Language

- | | | |
|--------------------------------|--------------|--|
| 1. Kukeati, Chanikant | Lecturer | M.A. (Thai), Chulalongkorn Univ. |
| 2. Kunnajukr, Suntaree | Lecturer | M.Ed. (Thai), Srinakharinwirot Univ. |
| 3. Indraruna, Subhrangsu | Lecturer | Ph.D. (Linguistics), Univ. of Calcutta |
| 4. Pengpongsa, Yomdoey | Asst. Prof. | M.A. (Pali- Sanskrit), Chulalongkorn Univ. |
| 5. Phatthanasiri, Watcharaporn | Lecturer | M.A. (Thai), Silpakorn Univ. |
| 6. Prasong-ngern, Ekkapong | Lecturer | M.A. (Linguistics), Thammasart Univ. |
| 7. Saengchan, Yawalak | Lecturer | M.Ed. (Thai), Srinakharinwirot Univ. |
| 8. Sangkapradit, Kantanat | Lecturer | M.A. (Thai), Silpakorn Univ. |
| 9. Sarapadnuke, Chittapa | Lecturer | Ph.D. (Sanskrit), Banaras Hindu Univ. |
| 10. Tardleck, Sasithorn | Lecturer | M.A. (Linguistics), Thammasart Univ. |
| 11. Thantawanit, Tassanee | Assoc. Prof. | M.Ed. (Thai Language and Literature),
Srinakharinwirot Univ. |
| 12. Tippasri, Boonruam | Asst. Prof. | M.Ed. (Educational Administration), M.S. University
of Baroda |
| 13. Udommanisuwat, Piradee | Lecturer | M.A. (Linguistics), Chulalongkorn Univ. |
| 14. Mongkol, Chaluy | Lecturer | M.Ed. (Oriental Epigraphy), Silpakorn Univ. |
| 15. Wongthat, Siriwan | Lecturer | M.Ed. (Thai), Silpakorn Univ. |

Department of Western Languages

- | | | |
|-----------------------------|----------|---|
| 1. Ajanapongsa, Thongchai | Lecturer | M.A. (TEFL), Ball State Univ. |
| 2. Chaisuriya, Amon | Lecturer | B.A. (English), Rajabhat Institute, Buriram |
| 3. Jatejummlone, Somboon | Lecturer | M.A. (Teaching), Kasetsart Univ. |
| 4. Dhanesschaiyakupta, Ubon | Lecturer | M.A. (Teaching), Kasetsart Univ. |

5. Pummawan, Daranee	Asst. Prof.	M.Ed. (English and Literature), Srinakharinwirot Univ.
6. Rattanawanitpun, Suchada	Lecturer	Ph.D. (education-Curriculum and Instruction), Southern Illinois Univ. at Carbondale
7. Sangpanasthada, Thinan	Lecturer	B.Ed. (Teaching English), Rajabhat Institute, Chacherngsao
8. Teawrattanakul, Thanu	Lecturer	M.Ed. (English), Srinakharinwirot Univ.
9. Tanskul, Korblarp	Lecturer	M.Ed. (Research on EFL Reading), La Trobe Univ.
10. Thuthaworn, Thawanit	Lecturer	M.Ed. (Teaching English as a Foreign Language), Chulalongkorn Univ.
11. Changprachak, Watcharapong	Lecturer	M.A. (Language and Culture of Communication and Development, Translation)
12. Sanguanboon, Panida	Lecturer	M.A.T. (Teaching English), Jackson State Univ.
13. You-Udomsuk, Orisa	Lecturer	M.A. (Teaching), Kasetsart Univ.
14. Harnmontree, Areeluck	Lecturer	M.A. (Linguistics), Mahidol Univ.
15. Jaimee-Aree, Parkpoom	Lecturer	M.A. (French), Chulalongkorn Univ.
16. Kosolritthichai, Wiroj	Lecturer	B.A. (French), Thammasart Univ.
17. Krisanalom, Kessara	Lecturer	M.A. (Applied Linguistics), Mahidol Univ.
18. Nitsaisook, Malee	Asst. Prof.	Ph.D. (English), Southern Illinois University at Carbondale
19. Saelao, Supatra	Lecturer	M.A. in Teaching, Kasetsart Univ.

Project for the Establishment of Department of Communication Science

1. Punyapairoje, Chompunuch	Lecturer	Ph.D. (Communications), Univ. of Tennessee, Knoxville
2. Buranadechachai, Sukanya	Asst. Prof.	M.A. (Mass Communication), Thammasart Univ.
3. Chanrungraneekul, Unaloam	Lecturer	M.A. (Mass Communication), Univ. of Leicester, UK.
4. Chinodom, Suthida	Lecturer	M.A. (Mass Communication), Thammasart Univ.
5. Sookplam, Chitapha	Lecturer	M.A. (Development Communication), Chulalongkorn Univ.
6. Vongsumitr, Ratchanee	Lecturer	M.A. (Mass Communication), Thammasart Univ.

Faculty of Marine Technology

1. Sonchaeng, Pichai	Lecturer	D.Sc. (Biological Environment), Michigan University
2. Yuvanatemiya, Vasin	Lecturer	M.Sc. (Aquatic Science), Burapha Univ.
3. Nuangsaeng, Bunlung	Lecturer	M.Sc. (Fisheries Science), Kasetsart University
4. Chaiyanate, Nittaya	Lecturer	Ph.D. (Marine Environmental), The United School of Agricultural Science, Ehime University
5. Kitimasak, Napaporn	Lecturer	M.Sc. (Marine Science), Chulalongkorn Univ.
6. Nilkerd, Banacha	Lecturer	M.Sc. (Aquatic Science), Burapha University

Faculty of Nursing

Department of Basic Science in Nursing

1. Subgranon, Ratchameeporn	Asst. Prof.	Ph.D. (Nursing), University of Utah
2. Paokunha, Raweewan	Lecturer	M.Ed. (Nursing Administration), Chulalongkorn Univ.
3. Sungvorawongphana, Areerat	Asst. Prof.	M.Ed. (Nursing Administration), Chulalongkorn Univ.
4. Lakleam, Orphin	Lecturer	M.S. (Nursing), Mahidol Univ.
5. Kungchai, Waree	Asst. Prof.	D.N.Sc. , Mahidol Univ.
6. Piphatvanitcha, Naiyana	Lecturer	M.N.S. (Medical & Surgical Nursing), Chiangmai Univ.
7. Somanusorn, Sirilak	Lecturer	M.N.S. (Infection Control of Nursing), Chiangmai Univ.
8. Puengwongsamran, Somjit	Lecturer	M.N.S. (Adult Nursing), Mahidol Univ.
9. Sumngern, Chommanard	Lecturer	M.N.S. (Gerontological Nursing), Burapha Univ.

Department of Community Health Nursing

1. Chantawong, Chantana	Asst. Prof.	Dr.P.H. (Epidemiology), Mahidol Univ.
2. Asawachaisuwikrom, Wannaipa	Lecturer	Ph.D. (Public Health Nursing), The Univ. of Texas at Austin

3. Sunsern, Rachanee	Lecturer	D.N.Sc. (Community Health Nursing), The Catholic Univ. of America
4. Junprasert, Suwanna	Asst. Prof.	Dr.P.H. (Public Health Nursing), Mahidol Univ.
5. Toonsiri, Siriporn	Asst. Prof.	M.S. (Public Health), Mahidol Univ.
6. Srisuriyawet, Rungrat	Asst. Prof.	M.S. (Epidemiology), Mahidol Univ.
7. Homsin, Pornnapa	Asst. Prof.	M.S. (Public Health), Mahidol Univ.
8. Ratanagrethakul, Somsamai	Asst. Prof.	M.S. (Hum Reprod & Pop Planning), Mahidol Univ.
9. Leelukkanaveera, Yuwadee	Lecturer	M.S. (Public Health), Mahidol Univ.
10. Somchid, Sujidra	Lecturer	M.N.S. (Community Health Nursing), Mahidol Univ.
11. Moonmuang, Nikom	Asst. Prof.	M.S. (Public Health), Mahidol Univ.
12. Lawang, Wannarat	Lecturer	B.N.S. (Community Health Nursing), Mahidol Univ.

Department of Maternal and Child Health Nursing

1. Theinpichet, Suntharawadee	Asst. Prof.	Ph.D. (Higher Education), Chulalongkorn Univ.
2. Phaktoop, Maneerat	Asst. Prof.	Ph.D. (Demography), Mahidol Univ.
3. Deoisres, Wannee	Assoc. Prof.	Ph.D. (Family Nursing), Case Western Reserve Univ.
4. Wacharasin, Chintana	Asst. Prof.	Ph.D. (Nursing), The University of Washington
5. Chuahorm, Usa	Asst. Prof.	M.S. (Nursing), Mahidol Univ.
6. Chaimongkol, Nujjaree	Asst. Prof.	M.Sc. (Public Health), Mahidol Univ.
7. Yuenyung, Siriwan	Asst. Prof.	M.S. (Nursing), Mahidol Univ.
8. Siriarunrat, Supit	Lecturer	M.S. (Hum. Reprod. & Pop. Planning), Mahidol Univ.
9. Sawatphanit, Wilaiphan	Asst. Prof.	M.N.S. (Family Nursing), Khon Kaen Univ.
10. Pongjaturawit, Yunee	Asst. Prof.	M.Ed. (Nursing Administration), Chulalongkorn Univ.
11. Suppasri, Piriya	Asst. Prof.	M.S. (Public Health), Mahidol Univ.
12. Suppaseemanont, Wantana	Lecturer	M.N.S. (Family Nursing), Khon Kaen Univ.
13. Teerarungsikul, Narumon	Asst. Prof.	M.Sc. (Nursing), Mahidol Univ.
14. Sanonreangsuk, Siriyupa	Lecturer	M.S. (Public Health), Mahidol Univ.
15. Danchai, Kamonthip	Lecturer	M.N.S. (Pediatric Nursing), Mahidol Univ.
16. Suwansujarid, Tatirat	Lecturer	M.N.S. (Nursing Education), Chulalongkorn Univ.

Department of Medical and Surgical Nursing

- | | | |
|-----------------------------|-------------|--|
| 1. Wachirawat, Wariya | Asst. Prof. | D.N.Sc., Mahidol Univ. |
| 2. Chunlertsukul, Kanoknuch | Asst. Prof. | D.N.Sc., Mahidol Univ. |
| 3. Pathumarak, Narumon | Asst. Prof. | M.Ed. (Nursing Administration), Chulalongkorn Univ. |
| 4. Worapattrakul, Tassanee | Lecturer | M.S. (Nursing), Mahidol Univ. |
| 5. Phiwton, Walapa | Lecturer | M.S. (Nursing), Mahidol Univ. |
| 6. Kunsongkeit, Wanlapa | Asst. Prof. | M.N.S. (Medical & Surgical Nurse), Chiangmai Univ. |
| 7. Deenan, Aporn | Asst. Prof. | M.S. (Nursing), Mahidol Univ. |
| 8. Keeratiyutawong, Pawana | Asst. Prof. | M.N.S. (Adult Nursing), Mahidol Univ. |
| 9. Masingboon, Khemaradee | Asst. Prof. | M.Ed. (Nursing Administration), Chulalongkorn Univ. |
| 10. Samartkit, Niphawan | Asst. Prof. | M.S. (Nursing), Mahidol Univ. |
| 11. Vatanasin, Siriwan | Asst. Prof. | M.S. (Nursing), Mahidol Univ. |
| 12. Duang Paeng, Supaporn | Lecturer | D.N.Sc., Mahidol Univ. |
| 13. Potaros, Darussanee | Lecturer | M.N.S. (Adult Nursing), Mahidol Univ. |
| 14. Mahakayanun, Suwannee | Lecturer | M.N.S. (Adult Nursing), Mahidol Univ. |
| 15. Tanatwanit, Yupin | Lecturer | M.N.S. (Medical & Surgical Nursing), Chiangmai Univ. |
| 16. Jullamate, Pornchai | Asst. Prof. | M.N.S. (Medical & Surgical Nursing), Chiangmai Univ. |
| 17. Sumonwong, Wachiraporn | Lecturer | M.N.S. (Medical & Surgical Nursing), Chiangmai Univ. |
| 18. Wisaso, Wipa | Lecturer | M.N.S. (Adult Nursing), Burapha Univ. |

Department of Mental Health and Psychiatric Nursing

- | | | |
|------------------------------|-------------|--|
| 1. Jariyapayuklert, Kuntalee | Lecturer | M.Ed. (Educational Psychology and Guidance), Chulalongkorn Univ. |
| 2. Nabkasom, Chanudda, CAP | Lecturer | M.Ed. (Psychology), Chulalongkorn Univ. |
| 3. Puapan, Saichai | Asst. Prof. | Ph.D. (Nursing), Univ. of Colorado |
| 4. Suntornvijitr, Sarawalee | Lecturer | M.N.S. (Nursing Education), Chulalongkorn Univ. |
| 5. Thanee, Sanguan | Lecturer | M.E. (Educational Psychology, Khon Kaen Univ. |
| 6. Hengudomsub, Pornpat | Lecturer | M.N., Wollongong Univ. |

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|------------------------|----------|--|
| 7. Boonnotok, Rodjana | Lecturer | M.S. (Mental Health), Chulalongkorn Univ. |
| 8. Aeamlao, Napaporn | Lecturer | M.N.S. (Mental Health and Psychiatric Nursing),
Chaingmai Univ. |
| 9. Jaruphan, Pornsuwan | Lecturer | M.N.S. (Nursing Administration), Chulalongkorn Univ. |

Department of Research, Evaluation and Nursing Administration

- | | | |
|--------------------------------------|--------------|--|
| 1. Keitlertnapha, Pongsri | Asst. Prof. | Ed.D. (Higher Education), Srinakharinwirot Univ. |
| 2. Pongruengphant, Rana | Assoc. Prof. | Ph.D. (Educational Administration), Illinois State
Univ. |
| 3. Baramee, Julaluk | Asst. Prof. | M.S. (Physiology), Mahidol Univ. |
| 4. Wangsukpisan, Apa | Lecturer | M.Ed. (Nursing Administration), Chulalongkorn Univ. |
| 5. Khemyu, Areerut | Asst. Prof. | D.S.N., The University of Alabama at Birmingham |
| 6. Svastdi-Xuto, Paranee | Lecturer | M.Ed. (Nursing Administration), Chulalongkorn Univ. |
| 7. Sakulkoo, Suwadee | Lecturer | M.S. (Epidemiology), Mahidol Univ. |
| 8. Lausuwannagoon, Wichitporn | Lecturer | Ed.D. (Research and Curriculum Development),
Srinakharinwirot Univ. |
| 9. Louimsai, Suphun | Lecturer | M.Ed. (Educational Technology), Burapha Univ. |
| 10. Vacharakiat, Marayart, POL.CAPT. | Lecturer | M.N.S. (Nursing Administration), Chulalongkorn
Univ. |
| 11. Rattanaajana, Sahattaya | Lecturer | M.Ed. (Nursing Administration), Chulalongkorn Univ. |
| 12. Yimme, Suchawadee | Lecturer | M.N.S. (Nursing Administration), Chulalongkorn
Univ. |
| 13. Kanonkid, Sorot | Lecturer | M.N.S. (Nursing Administration), Chiangmai Univ. |
| 14. Sungwan, Patcharin | Lecturer | M.N.S. (Nursing Administration), Chiangmai Univ. |

Faculty of Public Health

Department of Environmental Health

- | | | |
|--------------------------|-------------|--|
| 1. Intarakul, Chaweewan | Lecturer | M.Sc. (Environmental Technology), Mahidol Univ. |
| 2. Nilsumranchit, Wandee | Lecturer | M.Sc. (Environmental Technology), Mahidol Univ. |
| 3. Onrassami, Ratiwun | Asst. Prof. | M.Sc. (Environmental Technology), Mahidol Univ. |
| 4. Prachuabmorn, Aimorn | Lecturer | M.Sc. (Environmental Science), Kasetsart Univ. |
| 5. Bawornkiatikul, Danai | Lecturer | M.Sc. (Environmental Science), Kasetsart Univ. |
| 6. Asa, Paradee | Lecturer | M.S. (Environmental Science), Chulalongkorn Univ. |
| 7. Detsuttikorn, Prayook | Lecturer | M.Eng. (Environmental Engineering), Makanakorn Univ. |

Department of Health Education

- | | | |
|--------------------------|----------|---|
| 1. Methaphat, Chingchai | Lecturer | M.P.H. (Rural Health), Univ. of the Philippines
M.Sc. (Medical Anthropology), Univ. College London |
| 2. Suwannasri, Pachanee | Lecturer | M.Ed. (Health Education), Srinakharinwirot Univ. |
| 3. Rodjarkpai, Yuvadee | Lecturer | M.Sc. (Health Education), Mahidol Univ. |
| 4. Homchampa, Pissamai | Lecturer | Ph.D. (Medical and Nutritional Anthropology),
Univ. of Oregon |
| 5. Chareungate, Pichet | Lecturer | M.Sc. (Public Health), Mahidol Univ. |
| 6. Mahaveerawat, Udomsak | Lecturer | M.P.H. (Public Health), Univ. of the Philippines |

Department of Industrial Hygiene and Safety

- | | | |
|-----------------------------|-------------|--|
| 1. Pusapukdepob, Jitrapun | Asst. Prof. | M.Sc. (Industrial Hygiene and Safety), Mahidol Univ. |
| 2. Tadtakuk, Anamai | Asst. Prof. | M.P.H. (Environmental Health), Khon Kaen Univ. |
| 3. Yingratanasuk, Tanongsak | Lecturer | M.P.H. (Rural Health), Univ. of the Philippines
M.S. (Industrial Hygiene and Safety), Uni. of
Washington |
| 4. Meepradit, Parvena | Lecturer | M.Sc. (Industrial Hygiene and Safety), Mahidol Univ. |
| 5. Buthbumrung, Nantaporn | Lecturer | M.Sc. (Toxicology), Mahidol Univ. |
| 6. Lormpongs, Srirat | Lecturer | M.Sc. (Industrial Hygiene and Safety), Mahidol Univ. |

Department of Public Health Foundation

1. Hokyindee, Usa	Lecturer	M.A.(Population and Social Research), Mahidol Univ.
2. Nunthawarasilp, Prapa	Lecturer	M.Sc.(Parasitology), Khon Kaen Univ.
3. Thiramanus, Thirapong	Asst. Prof.	Dr.P.H.(Epidemiology), Mahidol Univ.
4. Rudtanasudjatam, Koolarb.	Assoc. Prof.	Dr.P.H.(Public Health Administration), Mahidol Univ.
5. Tanvatanakul, Vasuton	Asst. Prof.	M.P.H.M. (Primary Health Care Management), Mahidol Univ.
6. Serekajornkicharoen, Pisamai	Lecturer	M.S. (Public Health), Mahidol Univ.
7. Chanchay, Siriporn	Lecturer	M.P.H. (Public Health), Mahidol Univ.
8. Thongdee, Orapin	Lecturer	M.P.H. (Public Health), Chiang Mai Univ.
9. Sangjun. Sunisa	Lecturer	M.S. (Environmental Science) Kasetsart Univ.

Faculty of Science

Department of Aquatic Science

1. Chalermwat, Kashane	Assoc. Prof.	Ph.D. (Ecology), Rutgers –The State University of New Jersey
2. Cheevaporn, Voravit	Assoc. Prof.	Ph.D. (Marine Pollution Chemistry), University of the Philippines at Diliman
3. Sawangwong, Pichan	Asst. Prof.	Ph.D. (Marine, Estuarine and Environmental Studies), University of Maryland
4. Srisopaporn, Praparsiri	Asst. Prof.	M.Sc. (Fisheries), Kasetsart Univ.
5. Sirirattanachai, Sittipudh	Asst. Prof.	Ph.D. (Marine Science), Chulalongkorn Univ.
6. Jaritkuan, Somtawin	Asst. Prof.	Ph.D. (Biological Science), University of Portsmouth
7. Vuthiphandchai, Verapong	Asst. Prof.	Ph.D. (Aquaculture), University of Maryland
8. Manthachitra, Vipoosit	Asst. Prof.	Ph.D. (Marine Biology), James Cook Univ.
9. Buranapratheprat, Anukul	Lecturer	M.Sc. (Marine Science), Chulalongkorn Univ.
10. Pratoomchat, Boonyarath	Asst. Prof.	Ph.D. (Aquatic Science), University of Porto
11. Nuangsaeng, Bunlung	Lecturer	M.Sc. (Fishery Science), Kasetsart Univ.
12. Diparos, Marut	Lecturer	M.Sc. (Resource Management), Kasetsart Univ.
13. Tangkrockolan, Nongnud	Asst.Prof.	Ph.D. (Zoology), University of Canterbury

14. Jintasaeranee, Pachoenchoke	Lecturer	M.Sc. (Marine Science), Chulalongkorn Univ.
15. Sonchaeng, Pichai	Lecturer	Ph.D. (Biology), Mahidol Univ.
16. Panutrakul, Suwanna	Lecturer	D.Sc. (Geochemistry), Free University of Brussels
17. Boonphakdee, Thanomsak	Lecturer	M.Sc. (Environmental Science), Chalongsorn Univ.
18. Gunbua, Vitchaya	Lecturer	M.Sc. (Marine Science), Chulalongkorn Univ.
19. Senanan, Wansuk	Lecturer	M.S. (Fisheries), University of Minnesota

Department of Biology

1. Thongkukiattkul, Amporn	Asst. Prof.	Ph.D. (Biology), Mahidol Univ.
2. Frederick William H. Beamish	Prof.	Ph.D. (Environmental Physiology), Univ. of Toronto
3. Poolsanguan, Boonserm	Assoc. Prof.	Ph.D. (Invertebrate Physiology), The Univ. of Hull
4. Prayoonrat, Pragrom	Assoc. Prof.	M.Sc. (Agriculture), Kasetsart Univ.
5. Matchacheep, Surin	Assoc. Prof.	M.Sc. (Zoology), Chulalongkorn Univ.
6. Tuntiwaranurak, Chanawat	Asst. Prof.	M.Sc. (Biology), Chiangmai Univ.
7. Satayavanich, Manoo	Asst. Prof.	M.Sc. (Agriculture), Kasetsart Univ.
8. Tanvatanakul, Nantana	Asst. Prof.	M.Ed. (Biology), College of Education, Prasarnmitr
9. Pedyod, Punnee	Asst. Prof.	M.Ed. (Biology), Srinakharinwirot Univ.
10. Matchacheep, Somsook	Asst. Prof.	M.Sc. (Botany), Kasetsart Univ.
11. Indananda, Chandra	Lecturer	M.Sc.(Genetics), Kasetsart Univ.
12. Boonphakdee, Chuta	Asst. Prof.	M.Sc. (Zoology), Chulalongkorn Univ.
13. Suwannapong, Guntima	Lecturer	Ph.D. (Biological Science), Chulalongkorn Univ.
14. Loutchanwoot, Panida	Lecturer	M.Sc. (Zoology), Chulalongkorn Univ.
15. Tanvatanakul, Phajong	Lecturer	M.Ed. (Biology), Srinakharinwirot Univ.
16. Kongchareonsunthorn, Wisatre	Lecturer	Ph.D. (Molecular Biology), University of North Texas
17. Chamsart, Saedthawat	Lecturer	Ph.D. (Chemical Engineering), The Univ. of Birmingham
18. Suksringam, Sunee	Lecturer	M.Ed. (Biology), Srinakharinwirot Univ.
19. Junesirikul, Duangta	Lecturer	M.Sc. (Environmental Biology), Mahidol Univ.
20. Arunnopparat, Jintana	Lecturer	M.Sc. (Genetics), Kasetsart Univ.
21. Phraprasert, Phakpoom	Lecturer	M.Sc.(Botany), Kasetsart Univ.
22. Dumrongrojwattana, Pongrat	Lecturer	M.Sc. (Zoology), Chulalongkorn Univ.
23. Banharn, Siripan	Lecturer	M.Sc. (Botany), Chulalongkorn Univ.

Department of Biochemistry

- | | | |
|-----------------------------|-------------|--|
| 1. Boonthanom, Witthaya | Lecturer | M.Sc. (Biochemistry), Chelsea College, Univ. of London |
| 2. Gordon B. Bailey | Prof. | Ph.D. (Biochemistry), University of Florida |
| 3. Santawanpas, Smartachai | Asst. Prof. | Ph.D. (Biological Sciences), Rhode Island Univ. |
| 4. Srisook, Klaokwan | Lecturer | M.Sc. (Biochemistry), Mahidol Univ |
| 5. Sootanan, Pitak | Lecturer | M.Sc. (Biochemistry), Chulalongkorn Univ. |
| 6. Chooluck, Sunthorn | Lecturer | M.Sc. (Molecular Genetics and Genetics.Engineering)
Mahidol Univ. |
| 7. Thitirukpanich, Udomluck | Lecturer | M.Sc. (Biochemistry), Chulalongkorn Univ. |
| 8. Jittima, Charoenpanich | Lecturer | M.Sc. (Biochemistry), Chulalongkorn Univ. |
| 9. Mankhetkorn, Samlee | Lecturer | Ph.D. (Docteur Es Sciences des Universitaires),
University of 'de Paris |

Department of Biotechnology

- | | | |
|----------------------------|----------|--|
| 1. Kruawal, Komprabha | Lecturer | Ph.D. (Biological Sciences), University of Southern
Mississippi |
| 2. Rutanaphadit, Krongchan | Lecturer | M.Sc. (Biotechnology), Prince of Songkla Univ. |
| 3. Chaiyanate, Nittaya | Lecturer | Ph.D. (Tropical and Subtropical Agricultural
Sciences), Ehime Univ. |
| 4. Winotaphan, Phochit | Lecturer | M.Sc. (Biotechnology), Chulalongkorn Univ. |

Department of Chemistry

- | | | |
|----------------------------|--------------|---|
| 1. Techasauvapak, Prapapan | Lecturer | Ph.D. (Organic Catalysis), Seton Hall Univ. |
| 2. Pedyod, Thumanoon | Assoc. Prof. | M.Ed. (Chemistry), College of Education |
| 3. Therdteppitak, Arunee | Asst. Prof. | Ph.D. (Electrochemistry), Seton Hall Univ. |
| 4. Naengchomnong, Waree | Asst. Prof. | Ph.D. (Organic Chemistry), Mahidol Univ. |
| 5. Tunheng, Apinya | Lecturer | M.Sc. (Chemistry), Chulalongkorn Univ. |
| 6. Pongsai, Bussakorn | Lecturer | Ph.D. (Physical Chemistry), University of Bristol |
| 7. Suksai, Chomchai | Lecturer | B.Sc. (Chemistry), Burapha Univ. |
| 8. Puttnual, Chuleeporn | Lecturer | Ph.D. (Chemistry & Biochemistry), Univ. of Delaware |
| 9. Suwattanamala, Ekapong | Lecturer | M.Sc. (Chemistry), Chulalongkorn Univ. |

10. Srisook, Ekaruth	Lecturer	M.Sc. (Organic Chemistry), Mahidol Univ.
11. Jongaramruong, Jongkolnee	Lecturer	Ph.D. (Chemistry, Marine Natural Products), University of Tasmania
12. Tedsree, Karaked	Lecturer	M.Sc. (Chemistry), Chulalongkorn Univ.
13. Thipyapong, Khajadpai	Lecturer	M.Sc. (Chemistry), Chulalongkorn Univ.
14. Boonwanich, Wannapa	Lecturer	Ph.D. (Physical Chemistry), Curtin University of Technology
15. Tangtreamjitmun, Napa	Lecturer	M.Sc. (Analytical Chemistry), Brock Univ.
16. Sae Eng, Rungnapha	Lecturer	Doctor of Agricultural Sciences in Organic Chemistry, Nagoya Univ.
17. Thuwasin, Sasithorn	Lecturer	M.Sc. (Analytical Chemistry), Kasetsart Univ.
18. Chanvaivit, Sirirat	Lecturer	M.Sc. (Analytical Chemistry), Brock Univ.
19. Sirichai, Somsak	Lecturer	Ph.D. (Analytical Chemistry), Imperial College of Science, Technology and Medicine
20. Kaewpirom, Supranee	Lecturer	M.Sc. (Polymer Science), Chulalongkorn Univ.
21. Pabunruang, Thanida	Lecturer	Ph.D. (Polymer Chemistry), Loughborough Univ.

Department of Computer Science

1. Chinodom, Seree	Lecturer	M.Ed. (Mathematics Education), Chulalongkorn Univ.
2. Suksawatchon, Jakkarin	Lecturer	M.Sc. (Information Technology), King Mongkut's Institute of Technology, Ladkrabang
3. Jantarakongkul, Benchaporn	Lecturer	M.Sc. (Information Technology), King Mongkut's Institute of Technology, Ladkrabang
4. James Edward Brucker	Lecturer	Ph.D. (Electrical Engineering), University of California at Los Angeles
5. Jaturanon, Jira	Lecturer	M.Sc. (Computer Science), Curtin University of Technology
6. Onlaoor, Kantima	Lecturer	B.Sc. (Computer Science), Burapha Univ.
7. Kubola, Kanuengnij	Lecturer	B.Sc. (Computer Science), Khon Kaen Univ.
8. Chinnasarn, Krisana	Lecturer	M.Sc. (Computer Science & Information Technology), King Mongkut's Institute of Technology, Ladkrabang

9. Denwattana, Nuansri	Lecturer	Ph.D. (Applied Statistics), University of Wollongong
10. Duangsri, Phongwut	Lecturer	M.Sc. (Computer Science), Chulalongkorn Univ.
11. Kulkasem, Pusit	Lecturer	M.Eng. (Electronics and Information Science), University of Tsukuba
12. Thammalikit, Surangkana	Lecturer	Ph.D. (Computer Science), University of Essex
13. Rasmequan, Suwana	Lecturer	Ph.D. (Computer Science), University of Warwick
14. Iempairote, Tawatchai	Lecturer	M.S. (Computer Applications), Asia Institute of Technology
15. Wongthong, Tippawan	Lecturer	B.Sc. (Computer Science), King Mongkut's Institute of Technology, North Bangkok
16. Chantarujirakorn, Tomkanok	Lecturer	M.Sc. (Computer Information System), Assumption University of Thailand
17. Puntumchinda, Wittawas	Lecturer	M.Sc. (Computer Science and Information Technology), King Mongkut's Institute of Technology, Ladkrabang
18. Parnjai, Jarungjit	Lecturer	M.Sc. (Computer Science), University of Adelaide

Department of Food Science

1. Waiprib, Yaowaphar	Lecturer	Ph.D. (Chemical Engineering), University of Queensland
2. Suksomboon, Anocha	Lecturer	B.Sc. (Food Science & Technology), Chiangmai Univ.
3. Sangnark, Arpathsra	Lecturer	M.Sc. (Food Technology), Chulalongkorn Univ.
4. Hongvaleerat, Chularat	Lecturer	M.Sc. (Food Science & Technology) Univ. of Tennessee
5. Limroongreungrat, Kullaya	Lecturer	Ph.D. (Food Science), The University of Georgia
6. Krasaechol, Nisanarth	Lecturer	M.Sc. (Food Technology), Chulalongkorn Univ.
7. Suriyaphan, Orasa	Lecturer	Ph.D. (Food Science & Technology), Mississippi State Univ.
8. Thungkao, Prasong	Lecturer	M.Sc. (Food Science), Kasetsart Univ.
9. Sukhapun, Sirima	Lecturer	M.Sc. (Food Technology), Chulalongkorn Univ.
10. Yuenyongputtakal, Vichamanee	Lecturer	M.Sc. (Product Development), Kasetsart Univ.
11. Songwatthana, Termsak	Lecturer	M.Sc. (Food Science & Technology), Kasetsart Univ.
12. Kerddonfaek, Pornnapha	Lecturer	M.Sc. (Food Science), Kasetsart Univ.

Department of Material Science

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| 1. Therdtteppitak, Arunee | Asst. Prof. | Ph.D. (Electrochemistry), Seton Hall Univ. |
| 2. Pachana, Katavut | Lecturer | B.Sc. (Chemistry), Mahasarakham Univ. |
| 3. Srisook, Nattapong | Lecturer | B.Sc. (Chemistry), Mahidol Univ. |
| 4. Atorngitjawat, Pornpen | Lecturer | M.Sc. (Materials Science), Chulalongkorn Univ. |
| 5. Niyomsraul, Saisamorn | Lecturer | B.Sc. (Materials Science), Chulalongkorn Univ. |
| 6. Pipatpanyanugool, Kasem | Assoc. Prof. | M.Eng. (Industrial Engineering), Chulalongkorn Univ. |

Department of Mathematics and Statistics

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| 1. Wonggasame, Patcharee | Lecturer | M.Sc. (Statistics), Chulalongkorn Univ. |
| 2. Dhamacharoen, Amporn | Assoc. Prof. | Ph.D. (Applied Mathematics), North Carolina State Univ. |
| 3. Teerapabolarn, Kanint | Asst. Prof. | M.Sc. (Applied Statistics), The National Institute of Development Administration |
| 4. Chaidirek, Manop | Assoc. Prof. | M.Ed. (Mathematics), Srinakharinwirot Univ. |
| 5. Sinutoke, Pontip | Asst. Prof. | M.Sc. (Mathematics), Chulalongkorn Univ. |
| 6. Soponpinit, Somsuk | Asst. Prof. | Ph.D. (Statistics for Research & Mathematics Education), University of Missouri-Columbia |
| 7. Chumaneechoti, Watit | Asst. Prof. | M.Sc. (Mathematics), Chulalongkorn Univ. |
| 8. Kitichattraporn, Auangkana | Lecturer | M.Sc. (Applied Mathematics), King Mongkut's Institute of Technology, Thonburi |
| 9. Neamvonk, Apichat | Lecturer | M.Sc. (Applied Mathematics), Mahidol Univ. |
| 10. Chairojwattana, Apisak | Lecturer | M.Sc. (Information Technology in Business), Chulalongkorn Univ. |
| 11. Pakapongpan, Apisit | Lecturer | M.Sc. (Mathematics), Chiangmai Univ. |
| 12. Jindasawad, Jutaporn | Lecturer | M.Sc. (Biostatistics), Mahidol Univ. |
| 13. Saithanu, Kidakarn | Lecturer | M.S. (Applied Statistics), The National Institute of Development Administration |
| 14. Kidpholjaroen, Pattaraporn | Lecturer | M.S. (Applied Statistics), The National Institute of Development Administration |

15. Boondirek, Prarop	Lecturer	M.S., Hons. (Applied Statistics), The National Institute of Development Administration
16. Witit-anun, Preeyarat	Lecturer	M.S. (Statistics), Chulalongkorn Univ.
17. Dokchan, Rukporn	Lecturer	M.Sc. (Applied Mathematics), King Mongkut's University of Technology, Thonburi
18. Rattanamongkonkul, Sahattaya	Lecturer	M.Sc. (Applied Mathematics), Mahidol Univ.
19. Srisuk, Saowaros	Lecturer	M.Sc. (Applied Mathematics), King Mongkut's University of Technology, Thonburi
20. Lertprapi, Satinee	Lecturer	M.Sc. (Applied Mathematics), Mahidol Univ.
21. Rojsiraphisal, Thanet	Lecturer	B.Sc. (Mathematics), Mahidol Univ.
22. Pongsakchat, Vanida	Lecturer	M.Sc. (Applied Statistics), The National Institute of Development Administration
23. Panupintu, Wantana	Lecturer	M.S. (Applied Statistics), The National Institute of Development Administration
24. Krataitong, Noparat	Lecturer	M.Sc. (Statistics), Chulalongkorn Univ.
25. Sirisubtawee, Seksan	Lecturer	M.Sc. (Applied Mathematics), King Mongkut's Institute of Technology, Ladkrabang
26. Chalermwisutkul, Supakit	Asst. Prof.	M.Ed. (Mathematics), College of Education at Prasarnmitr

Department of Medical Science

1. Arunnopparat, Wirote	Lecturer	Ph.D. (Pharmacology), Mahidol Univ.
2. Upatham, Suchart	Prof.	Ph.D. (Natural Resources), University of Michigan
3. Chaichit, Nutthinee	Lecturer	M.Sc. (Biochemistry), Mahidol Univ.
4. Saengkhae, Chantarawan	Asst. Prof.	M.Sc. (Physiology), Chulalongkorn Univ.
5. Kutrakul, Kanokwan	Asst. Prof.	M.Sc. (Physiology), Chulalongkorn Univ.
6. Trongtorsak, Peicharat	Asst. Prof.	Ph.D. (Physiology), The University of Melbourne
7. Meeratana, Prasert	Asst. Prof.	Ph.D. (Anatomy), Mahidol Univ.
8. Meepol, Ardol	Lecturer	M.Sc. (Anatomy), Mahidol Univ.
9. Cherdwongcharoensuk, Duangrudee	Lecturer	M.Sc. (Anatomy), Mahidol Univ.
10. Nakiem, Vimomwan	Lecturer	M.Sc. (Anatomy), Mahidol Univ.

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| 11. Olankijanut, Wanida | Lecturer | M.Sc. (Pharmacology), Chulalongkorn Univ. |
| 12. Chaichit, Nutthinee | Lecturer | M.Sc. (Biochemistry), Mahidol Univ. |

Department of Microbiology

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| 1. Thungkoa, Sirichom | Lecturer | Ph.D. (Environmental Technology), University Massey Univ. |
| 2. Pantuwatana, Somsak | Prof. | Ph.D. (Virology), University of Wisconsin |
| 3. Suksri-ngam, Bunyat | Assoc. Prof. | M.Sc. (Microbiology), Kasetsart Univ. |
| 4. Siripermpool, Punnipa | Assoc. Prof. | M.Sc. (Microbiology), Mahidol Univ. |
| 5. Pilantanapak, Apiradee | Asst. Prof. | M.Sc. (Microbiology), Mahidol Univ. |
| 6. Pasura, Anuthep | Asst. Prof. | M.Sc.(Microbiology), Kasetsart Univ. |
| 7. Hrimpeng, Karnjana | Lecturer | M.Sc. (Medical Microbiology), Chulalongkorn Univ. |
| 8. Budda, Nisa | Lecturer | M.Sc. (Microbiology), Kasetsart Univ. |
| 9. Nuphasant, Pariya | Lecturer | M.Sc. (Microbiology), Kasetsart Univ. |
| 10. Ua-angkoon, Siriporn | Lecturer | M.Sc. (Microbiology), Kasetsart Univ. |
| 11. Nimrat, Subantith | Lecturer | Ph.D. (Environmental Science), Rutgers The State University of New Jersey |
| 12. Suanjit, Sudarat | Lecturer | Ph.D. (Environmental Microbiology), Victoria University of Technology |
| 13. Homthong, Sudsaichon | Lecturer | M.Sc. (Microbiology), Kasetsart Univ. |
| 14. Thathaisong, Umaporn | Lecturer | B.Sc. (Microbiology), Burapha Univ. |
| 15. Wichitsiri, Punyisa | Lecturer | M.Sc. (Biotechnology), King Mongkut's University of Technology, Thonburi |

Department of Physics

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| 1. Tanta-ngai, Boonchai | Lecturer | M.Ed. (Physics), College of Education |
| 2. Jongjitta, Samphao | Assoc. Prof. | M.Sc. (Physics), Chulalongkorn Univ. |
| 3. Vanichai, Yupa | Assoc. Prof. | M.Sc. (Physics), Chulalongkorn Univ. |
| 4. Chaikyakun, Surasing | Assoc. Prof. | M.Sc. (Physics), Chulalongkorn Univ. |
| 5. Witit-anun, Nirun | Asst. Prof. | M.Sc. (Environmental Science), Kasersart Univ. |
| 6. Garnsomsart, Sombat | Asst. Prof. | M.Sc. (Physics), Chulalongkorn Univ. |

7. Singka-selit, Thammasak	Asst. Prof.	M.Sc. (Physics), Chulalongkorn Univ.
8. Taepphanich, Chainarong	Lecturer	B.Sc. (Physics), Burapha Univ.
9. Issro, Chaisak	Lecturer	M.Sc. (Chemical Physics), Mahidol Univ.
10. Thawornthira, Chakapun	Lecturer	M.Sc. (Physics), Chulalongkorn Univ.
11. Uengkimbuan, Narong	Lecturer	M.Sc. (Nuclear Technology), King Mongkut's Institute of Technology, Thonburi
12. Srikoon, Nivorn	Lecturer	M.Eng. (Nuclear Technology), Chulalongkorn Univ.
13. Kaomai-ngam, Nupun	Lecturer	Ph.D. (Nuclear Physics), Oregon State Univ.
14. Chaichit, Pratom	Lecturer	M.Ed. (Physics), College of Education
15. Sriyaralugsana, Sakool	Lecturer	M.Sc. (Physics), Chulalongkorn Univ.
16. Chimchinda, Songvudhi	Lecturer	M.Sc. (Physics), Chulalongkorn Univ.
17. Lertsithichi, Somsuk	Lecturer	Ph.D. (Biophysics), Waikato University
18. Hensuppaiboon, Thitikorn	Lecturer	M.Eng. (Nuclear Technology), Chulalongkorn Univ.
19. Tuntiwaranurak, Usavadee	Asst. Prof.	M.Sc. (Energy Technology), King Mongkut's Institute of Technology, Thonburi
20. Karavapitayakula, Virat	Lecturer	M.Sc. (Physics), Chulalongkorn Univ.
21. Srisuphaphon, Sorakrai	Lecturer	M.Sc. (Physics), Chulalongkorn Univ.
22. Deachapunya, Sarayut	Lecturer	M.Sc. (Physics), Kasetsart Univ.

Faculty of Science and Liberal Arts

1. Pravatngam ,Ranop	Asst. Prof.	M.Ed. (Library Science), Srinakharinwirot Univ.
2. Kaewpupa, Chalongchai	Lecturer	M.Sc. (Physics), Chulalongkorn Univ.
3. Chotiganta, Daranee	Lecturer	M.Sc. (Computer Science), Chulalongkorn Univ. M.P.H. (Population and Family Planning), University of Hawaii
4. Sunthornvipart, Araya	Lecturer	M.B.A. (Management), Emporia State Univ.
5. Poolsawasdi, Worawit	Lecturer	M.Sc. (Information Technology), King Mongkut's Institute of Technology, Ladkrabang
6. Thavorn, Surang	Lecturer	M.Sc. (Applied Statistics), Thammasart Univ.
7. Sopharak, Akara	Lecturer	B.Sc. (Computer Science), Burapha Univ.

8. Tinnungwattana, Orawan	Lecturer	M.Sc. (Information Technology), King Mongkut's Institute of Technology, Ladkrabang
9. Puangsuwan, Thararat	Lecturer	B.Sc. (Computer Science), Burapha Univ.
10. Satidsathen, Chutima	Lecturer	M.A. (language and Communication), The National Institute of Development Administration
11. Satsangan, Lanchakorn	Lecturer	M.B.A. (Finance), The National Institute of Development Administration
12. Jamkratoke, Matinee	Lecturer	M.Sc. (Chemistry), Chulalongkorn Univ.
13. Phibanchon, Sarun	Lecturer	M.Sc. (Physics), Chulalongkorn Univ.

Graduate School of Commerce

1. Pakapaswiat, Somchit	Assoc. Prof.	Ph.D. (Political Science), University of Madrid Ph.D. (International Economics), University of Nancy)
2. Wannarat, Pradit	Assoc. Prof.	Ph.D. (Management Science), University of North Texas
3. Juisiri, Klangjai	Lecturer	Ph.D. (Economics), University of Kansas
4. Toommanon, Worasak	Lecturer	Ph.D. (Accounting), Oklahoma State University
5. Vachajipan, Porpan	Assoc. Prof.	Ph.D. (Engineering), University of Sydney
6. Kullavanij, Phasook	Asst. Prof.	Ph.D. (Chemical Engineering), Ohio State University
7. Chandrapalart, Adisak	Lecturer	D.B.A. (International Business), The University of Sarasota
8. Soonyhonsmai, Vuttichat	Asst. Prof.	D.B.A. (Marketing), Nova Southeastern University
9. Kraiwanit, Nimit	Lecturer	Ph.D. (Economics), Marathwada University
10. Owuer Ndegwa, Julius	Lecturer	Ph.D. (Finance & Data Processing), Marathwada University

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