

## Bachelor of Science Program in Geoinformatics

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### General Information

**Degree Designation** : Bachelor of Science Program in Geoinformatics

**Total Credits** : 136 credits

**Graduate** : 4 years

### Academic Year

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

- 1 st semester : June - September
- 2 nd semester : November – February
- Summer semester : March – May

### Course Structure

A : General Education Course

B : Major Course

C : Free Elective Course

### A : General Education (30 credits)

#### 1. Language and Communication (9 credits)

- Fundamental Course (6 credits) :

Course ID	Course name	Credits
1551001	Fundamental English	3(3-0-6)
1551002	English for Communication	3(3-0-6)

- Free Elective (3 credits) :

1541001	Thai Language Usage Skills	3(3-0-6)
1541002	Language and Communication for Specific Purposes	3(3-0-6)
1561001	Japanese for Communication	3(3-0-6)
1571001	Chinese for Communication	3(3-0-6)
1571002	Fundamental Chinese for Tourism	3(3-0-6)
1661001	Korean for Communication	3(3-0-6)
1691001	Fundamental Burmese	3(3-0-6)
1691002	Burmese for Communication	3(3-0-6)

## 2. Humanities (6 credits)

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

## 3. Social Sciences (6 credits)

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

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

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

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

#### B : Major Course (100 credits)

Major Requirement (66 credits)

Course ID	Course name	Credits
2541101	Physical Geography	3(2-2-5)
2541102	Human Geography	3(3-0-6)
2541202	Maps and Maps Interpretation	3(2-2-5)
2541203	Aerial Photo Interpretation	3(2-2-5)
2541301	Development and Thoughts of Geography and Geoinformatics	3(3-0-6)
2541303	Mathematics for Geoinformatics	3(3-0-6)
2541304	English for Geoinformatics	3(3-0-6)
2542201	Analytical Geography of Thailand	3(3-0-6)
2542302	Geographic Information System	3(2-2-5)
2542303	Remote Sensing	3(2-2-5)
2542304	Global Positioning System	3(2-2-5)
2542306	Statistic and Quantitative Techniques in Geoinformatics	3(2-2-5)
2542307	Field Techniques for Geoinformatics	3(2-2-5)

Course ID	Course name	Credits
2542308	Design and Digital Cartography	3(2-2-5)
2542309	English for Academic Geoinformatics	3(3-0-6)
2543401	Application to Geographic Information System	3(2-2-5)
2543402	Application to Remote Sensing Technology	3(2-2-5)
2543403	Database Management and Geoinformatics Standard	3(2-2-5)
2543404	Research Method in Geoinformatics	3(2-2-5)
2543406	Geoinformatics for Natural Resources Management and Integrated Environment	3(2-2-5)
2544404	Integration of Geoinformatic Technology for Local Management	3(2-2-5)
2544499	Research and Seminar in Geoinformatics	3(0-4-5)

#### Major Elective Course (27 credits)

Course ID	Course name	Credits
2541103	Geomorphology	3(2-2-5)
2541204	Geography of Tourism	3(2-2-5)
2542203	Settlement Geography	3(3-0-6)
2542204	Economic Geography	3(3-0-6)
2543202	Biogeography	3(3-0-6)
2543203	Geography of Ping River Basin	3(3-0-6)
2543204	Photogrammetry	3(2-2-5)
2543413	Geoinformatics for Natural Disaster Management	3(3-0-6)
2543414	Land Use and Land Cover Planning	3(2-2-5)
2543415	Geoinformatics for Watershed Management	3(3-0-6)
2543416	Geoinformatics Web Service	3(2-2-5)
2544405	Urban Geography and Planning	3(3-0-6)
2544406	Spatial Modeling	3(2-2-5)
2544407	Geoinformatics for Policy and Planning, Local Development and Social Sustainability	3(2-2-5)
2544408	Programming Application for Geoinformatics	3(2-2-5)
2544409	Geoinformatic for Taxmap and Asset Management	3(2-2-5)

### Professional Experience or Cooperative Education (7 credits)

Select a plan

Course ID	Course name	Credits
2544495	Preparation for Geoinformatics Practicum	
	Experience	2(90)
2544496	Practicum Geoinformatics	5(450)
or		
2544497	Cooperative Education Preparation	1(45)
2544498	Cooperative Education	6(540)

### C: Free Elective Course (6 credits)

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