

## Bachelor of Science Program in Geography and Geo-Informatics.

To produce graduates in geography and GIS. For a knowledge of geography. Geospatial technology skills the attitude and ideas to meet the needs of the labor market. Morality in creative occupations. Are trained to develop themselves regularly. The interest of the community and the nation.

### Curriculum Structure

Number of credits: At least	130 Credits
<b>1. General Education Courses</b>	<b>30 Credits</b>
(1) Language and Communication Skills	12 Credits
(2) Social Sciences and Humanities	9 Credits
(3) Mathematics Science and Technology	9 Credits
<b>2. Major Courses</b>	<b>94 Credits</b>
(1) Core Courses	15 Credits
(2) Requirement Courses	79 Credits
<b>3. Free Elective Course</b>	<b>6 Credits</b>
<b>Total Credits at least</b>	<b>130 Credits</b>

<b>1. General Education Courses</b>	<b>30 Credits</b>
<b>(1) Language and Communication Skills</b>	12 Credits

Course Code	Subject	Lecture-Practice-Self-Study
<b>(1.1) Requirement Courses</b>		
		<b>9 Credits</b>
GEL1101	Thai Usage	3(3-0-6)
GEL1102	English for Communication and Information Retrieval	3(3-0-6)
GEL1103	English for Communication and Study Skills	3(3-0-6)

<b>(1.2) Major Elective Courses</b>	<b>3 Credits</b>
GEL2201 Thai for Academic Purposes	3(3-0-6)
GEL2202 English for Academic Purposes	3(3-0-6)

Course Code	Subject	Lecture-Practice-Self-Study
GEL2203	ASEAN Languages	3(3-0-6)
GEL2204	Thai for Careers	3(3-0-6)

**(2) Social Sciences and Humanity 9 Credits**

**(1.1) Requirement Courses 6 Credits**

GEH1101	Aesthetic Appreciation	3(3-0-6)
GEH1102	Thai Society in Global Context	3(3-0-6)

**(1.2) Major Elective Courses 3 Credits**

GEH2201	Self Development	3(3-0-6)
GEH2202	Truth of Life	3(3-0-6)
GEH2203	Life in Multicultural Society	3(3-0-6)
GEH2204	Civil Education	3(3-0-6)
GEH2205	Life skills for The Absolute Human	3(3-0-6)

**(3) Mathematics Science and Technology 9 Credits**

GES1101	Information Technology for Communication and Learning	3(3-0-6)
GES1102	Science and Technology for Quality of Life	3(3-0-6)

(Select one course from this categories) 3 Credits

GES2201	Science and Technology for Environment	3(3-0-6)
GES2202	Thinking and Decision Making	3(3-0-6)

Course Code	Subject	Lecture-Practice-Self-Study
GES2203	Information Literacy	3(3-0-6)
GES2204	Mathematics for Life	3(3-0-6)
GES2205	Recreation for Quality of Life	3(3-0-6)
GES2206	Life and Health	3(3-0-6)

**2. Major Courses 94 Credits**

**(1) Core Courses 15 Credits**

MAT1101	Mathematics 1	3(3-0-6)
MAT1106	Introduction to Calculus	3(3-0-6)

MAT4302 Linear Algebra	3(3-0-6)
GEO3412 Computer for Geographer	3(2-2-5)
GEO4901 Research in Geography	3(2-2-5)
<b>(2) Requirement Courses</b>	<b>79 Credits</b>
<b>1) Groups of techniques and methods</b>	<b>18 Credits</b>
GEO1401 Map and Map Interpretations	3(2-2-5)
GEO1402 Digital Photogrammetry	3(2-2-5)
GEO1405 Surveying for Cartography	3(2-2-5)
GEO3413 Digital Cartography	3(2-2-5)
GEO3414 Fundamentals of Remote Sensing	3(2-2-5)
GEO3415 Fundamentals of Geographic Information System	3(2-2-5)
<b>2) Groups of Physical</b>	<b>9 Credits</b>
GEO1101 Physical Geography	3(2-2-5)
GEO2101 Climatology 3(2-2-5)	
GEO3102 Introduction to Geology	3(2-2-5)
<b>3) Groups of Human and Economic</b>	<b>6 Credits</b>
GEO1102 Human Geography	3(2-2-5)
GEO2105 Geographical Thought	3(3-0-6)
<b>4) Groups of Region</b>	<b>6 Credits</b>
GEO2301 Analytical Geography of Thailand	3(2-2-5)
GEO2303 Geography of South East Asia	3(3-0-6)
<b>3. Free Elective Courses</b>	<b>24 Credits</b>
GEO1403 Maps and Aerial Photo Interpretations	3(2-2-5)
GEO3402 Techniques and Method in Geography	3(2-2-5)
GEO3405 Statistical Techniques in Geography	3(2-2-5)
GEO3409 Computer Website Programming and Web Application in Geography	3(2-2-5)
GEO3410 Application Spatial Data Analysis Using Computer Language	3(2-2-5)
GEO3411 Database Design	3(2-2-5)
GEO3416 Advanced Remote Sensing	3(2-2-5)
GEO3417 Advanced Geographic Information System	3(2-2-5)
GEO3418 Global Positioning System (GPS)	3(2-2-5)

Course Code	Subject	Lecture-Practice-Self-Study
<b>2) Groups of Physical</b>		
GEO1103	Geomorphology	3(2-2-5)
GEO2102	Hydrology	3(3-0-6)
GEO2103	Biogeography	3(3-0-6)
GEO2104	Soil Geography	3(2-2-5)
GEO3204	Coastal Geography	3(3-0-6)
GEO4209	Natural Resources and Environmental Management of Thailand	3(2-2-5)
<b>3) Groups of Human and Economic</b>		
GEO1201	Economic Geography	3(2-2-5)
GEO1202	Cultural Geography	3(3-0-6)
GEO2203	Rural Geography	3(3-0-6)
GEO2204	Urban Geography	3(3-0-6)
GEO2205	Settlement Geography	3(3-0-6)
GEO3202	Politic Geography	3(3-0-6)
GEO3203	Agricultural Geography	3(3-0-6)
GEO3205	Geography of Planning and Development	3(2-2-5)
GEO4202	Geography of Marketing and Manufacturing	3(3-0-6)
GEO4207	Medical Geography	3(3-0-6)
GEO4208	Population Geography	3(3-0-6)
GEO4210	Geography of Tourism and Conservation	3(2-2-5)
GEO4211	Transportation of Geography	3(3-0-6)
<b>4) Groups of Region</b>		
GEO1301	Regional Geography of the World	3(2-2-5)
GEO4301	Geography of Europe	3(3-0-6)
GEO4302	Geography of America	3(3-0-6)
GEO4303	Geography of Asia	3(3-0-6)
GEO4304	Geography of Australia Oceania	3(3-0-6)
GEO4307	Geography of Central Region of Thailand	3(3-0-6)
GEO4308	Geography of Greater Mekong Sub region	3(3-0-6)
<b>5) Group of Increase Skills</b>		
GEO3902	Geographical Special Problems	3(2-2-5)
GEO4902	Seminar in Geography	3(2-2-5)

**2.3 English for Professionals 9 Credits**

GEO4204 Practice English in Geography 1 3(2-2-5)

GEO4205 Practice English in Geography 2 3(2-2-5)

GEO4206 Practice English for Information Retrieval Skill  
in Geography 3 3(2-2-5)

**2.4 Apprentice Course**

**7 Credits**

GEO3802 Geographical Practicum 7 (350)