



Course Syllabus (Academic Year 2020)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

1. **Course No. and Title** : KAGS 491 Senior Project in Geoscience I
Credit (study hours) : 2 (2-0-4)
2. **Program Name** : Bachelor of Science in Geoscience
3. **Course Module** : 1st and 2nd semester of 4th year
Pre/co-requisite : -
4. **Class Semester** : 1st Semester 2nd Semester Academic Year 2020
5. **Class Schedule & Venue** : Field work and online by Cisco Webex Meetings Program
 Laboratory Room; Lithology Lab, Petrology Lab, Rock Cutting Room, Geochemistry Lab, Radiation Lab
6. **Class Coordinator** : Dr. Patchawee Nualkhao
 Contact No. 092-9042292 Email : patchawee.nua@mahidol.edu

7. Course Description

Development of a major cumulative paper integrating what students have learned in the program with an applied area of student interest. Cover empirical or theoretical study of specific topics in Geoscience with an emphasis of the course. Students must earn a grade of “S” or better or must repeat the course.

8. Course Objectives / Course Learning Outcomes (CLOs)

No.	Objectives / CLOs	Expected Skills / Knowledge			PLOs
		Specific	Generic	Knowledge	
8.1	Students can develop a research question or hypothesis that demonstrates both breadth and depth of knowledge in the field of Geoscience.	Basic knowledge	Analytical thinking	Fundamental knowledge	1, 2
8.2	Students can perform a search of the professional literature related to the research question or hypothesis.	Basic knowledge	Analytical thinking	Fundamental knowledge	2, 4

8.3	Students can use technology to perform the literature review search and write an outline of the proposed research project and can criticize other students' drafts of their proposed research project.	Basic knowledge	Analytical thinking	Instrumental analysis	2, 4
8.4	Students can use technologies to research to answer the research question of hypothesis.	Basic knowledge	Analytical thinking	Fundamental knowledge	1, 2, 3, 4, 5
8.5	Students can write an in-depth research report about the question or hypothesis and present the results of the research project orally and in writing.	Basic knowledge	Reasonable	Application of fundamental knowledge	1, 2, 3, 4, 5

9. Class Instructor List

9.1 Name: Dr. Patchawee Nualkhao Contact No.: 09 2904 2292 Email : patchawee.nua@mahidol.edu

9.2 Name: Dr. Songkhun Boonchaisuk Contact No.: 08 0599 7690 Email : songkhun.boon@mahidol.ac.th

9.3 Name: Dr. Prinya Puttapiban.....Contact No.: 08 9669 5998 Email : prinya.put@mahidol.ac.th

9.4 Name: Dr. Sutatcha Hongresawat Contact No.: 09 8575 5911 Email : sutatcha.hon@mahidol.edu

9.5 Name: Dr. Piyathida Sangthong.....Contact No.: 08 1740 6604 Email : piyatida.san@mahidol.ac.th

9.6 Name: Dr. Parisa Nimnate.....Contact No : 08 7992 4245 Email : narongsak.kae@mahidol.ac.th

9.7 Name: Mr. Narongsak Kaewdum.....Contact No.: 08 9040 6016 Email : parisa.nim@mahidol.ac.th

9.8 Name: Dr. Katsuo Sashida.....Contact No.: 06 4992 9250 Email : katsuo.sas@mahidol.edu

10. Course Outline (based on reference sheet)

Week	Date	Contents	CLOs	Instructor's Names
1-8	Jul-Aug 2020	Be working on proposal and make appointment with the committee members for proposal defense	1, 2	All instructors in Geoscience Program and external committee
2-36	Jul 2020 – Apr 2021	Conduct research, arrange for committee meeting for progress check and be working on the senior project report	2, 3, 4	
37-45	Apr - May	Arrange of committee members meeting	5	

	2021	for final project defense and hand in draft of final report during the final committee meeting, there are no other alternatives		
46-47	May 30, 2021	Submit the final full report	5	

11. Course Assessment (based on reference sheet)

No.	Methods / Activities	Regulations	CLOs	Week	Weight Distribution (%)
11.1	Research proposal	Paper assessment and online Presentation by Cisco WebEx Meeting	1-5	1-8	20
11.2	Research Progress	Online Presentation by Cisco WebEx Meeting	1-5	2-36	20
11.3	Research project defense and final report writing	Paper assessment and online Presentation and questions by Cisco WebEx Meeting	1-5	37-45	30
11.4	Reports / Assignments	Oral or poster presentations and Report	1-5	46-47	20
11.5	Class participation	Must be greater than 80%	5	37-47	10
				Total	100

12. Grading System (based on reference sheet)

Criterion-referenced evaluation

Grade	Score
O	$\geq 80\%$
S	75 – 54.99%
I	< 50 %
X	No report

*O; Outstanding, S; Satisfactory, I; Incomplete, X; No report

Norm-referenced evaluation

*If use both criterion and norm-referenced evaluation, please tick two boxes.

13. References

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