



Course Syllabus (Academic Year 2021)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

1. **Course No. and Title** : KACB 495 Project in Conservation Biology

Credit (Study hours) : 4 (0-12-0)

2. **Program Name** : Bachelor of Science (Conservation Biology)

3. **Course Module** : Gen. Edu. course Core course Elective course

Pre/co-requisite : KACB301 and KACB319

4. **Semester** : 1st Semester 2nd Semester 3rd Semester

5. **Class Schedule & Venue** : as show in Table - Activities & Timetable

Students can get all information from Google Classroom (Class code: jbovzfv)

6. **Course Coordinator** : Lect. Chetsada Phaenark, Tel. 080-076-2169

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7. Course Description

Conducting a short-term research project in the individual interested topic related to conservation biology, under the supervision of an advisor and the committee

8. Course Objectives / Course Learning Outcomes (CLOs)

Objectives/CLOs	PLOs*
Students can;	
1. use knowledge from Theory and Laboratory study for doing research project in conservation biology	1, 5, 8
2. use the scientific process for developing research question related to conservation biology	1, 2, 5, 8
3. search scientific information from reliable sources for developing Research proposal that the research methodology has been designed systematically	4, 5
4. select the appropriate methods or technology used for data collection, data analysis and discussion for doing research efficiently and the research project followed in the determined research plan is well done	1, 3, 4, 5
5. make their own research report perfectly	1, 2, 4, 5
6. present their own project efficiently by appropriate information technology	6, 8
7. collaborate with teammates and stakeholders in research working with responsibility, integrity, and respect of their right.	7

NOTE: PLOs = Program Learning Outcomes

ELO1: Analyze biodiversity functions, value, status, trend, and their threats for monitoring and solving biodiversity problems.

ELO2: Interrelate biological sciences, relevant social sciences and economics to conserve biodiversity and sustainable development.

ELO3: Construct the conservation management plan with appropriate methods for solving the biodiversity problems with the given conditions.

ELO4: Conduct the scientific research to solve the particular problem related to biodiversity conservation.

ELO5: Apply the information technology for supporting biodiversity conservation management effectively, morally, and ethically.

ELO6: Apply the appropriate communication to support biodiversity conservation management.

ELO7: Collaborate with teammates and stakeholders in biodiversity conservation with responsibility, integrity, and respect the rights of them.

ELO8: Show concern about the ideas of caring both local and global biodiversity.

9. Class Instructor List

9.1 All Lecturers in Conservation Biology Program are assigned to be Major Advisor.

9.2 Some co-advisor (outside CB program) may be invited as advisor's requirement.

10. Activities and Timetable

week	Activities	Date and Venue	Instructors
1st semester, 2021			
1	Course orientation Course coordinator will give information about; <ul style="list-style-type: none"> • Course Objectives, Activities, and Evaluation • How to make the Research Proposal 	11 Aug 2021 11.00 – 12.00 Meeting by MU Webex (will be invited later)	Chetsada Phaenark (Course coordinator)
2	The preparation of research proposal Instructor will give the important detail for making the research proposal	16 Aug 2021 13.30 – 16.30 Meeting by MU Webex	Aj. Weerachon Sawangproh
3	Research Ethics (Plant & Animal)	23 Aug 2021 13.30 – 16.30 Meeting by MU Webex	Aj. Piyathip Piyapan
4	Research Ethics (Human)	30 Aug 2021 13.30 – 16.30 Meeting by MU Webex	Aj. Chutamas Sukhontapatipak
1 – 3	Research Question or Research Topic Students have to; <ul style="list-style-type: none"> • search scientific information from reliable sources • create the interested research question/topic in conservation biology • find an advisors / advisory committee 	9 – 29 Aug 2021	All Lecturers in CB Program
4	Project Title and Advisory committee Students will <ul style="list-style-type: none"> • fill in the Form BR_SP_01 (Project Title and Advisory committee) • submit the form to course coordinator 	30 Aug 2021 16.30 Online submission in Google classroom	Course coordinator
Comprehensive Examination			
1 – 8	Students review the basic biology knowledge (have been studied from 1 st – 3 rd year in CB program) and prepare yourselves for comprehensive examination	9 Aug – 3 Oct 2021	
9	Comprehensive Examination	Date and Time will be set in Midterm	All CB Staffs are assigned to be the committee for creating the exam

week	Activities	Date and Venue	Instructors
	Project Proposal		
4 – 9	Students will <ul style="list-style-type: none"> • search the scientific information from reliable sources for developing research proposal • make the research proposal followed in the determined format and instruction • consult with advisory committee 	30 Aug – 10 Oct 2021	Advisory committee
10	Students will <ul style="list-style-type: none"> • fill in the Form BR_SP_02 for oral presentation • submit the Form to course coordinator 	11 Oct 2021, 16.30 Online submission in Google Classroom	Course coordinator
10 – 14	Students will prepare the PPT presentation which perfectly show the proposal or scientific methodology	11 Oct – 9 Nov 2021	Advisory committee
14	Brief proposal presentation Students will present their proposal to advisory committee for suggestion / improvement of PPT presentation	10 Nov 2021	Advisory committee
15	Project Proposal presentation Students present project proposal (13 min. for presentation and 12 min. for Q/A) **Proposal presentation in Class**	17 Nov 2021 9.00 – 12.00 Room: be announced later	<ul style="list-style-type: none"> • Course coordinator • All CB Lecturers are invited to give some comment to student
15 - 18	Students make the complete proposal (editing follow by the comment from the advisory committee)	18 Nov – 12 Dec 2021	Advisory committee
19	Complete Proposal Students have to <ul style="list-style-type: none"> • fill in BR_SP_03 form • submit the form and 1 copy of complete proposal (PDF file) to course coordinator 	13 Dec 2021 16.30 Online submission in Google Classroom	Course coordinator
	Proposal Evaluation <ul style="list-style-type: none"> • If proposal have been approved by advisory committee, students will get “grade P” in the 1st semester and they can do their own research • Evaluation score (followed in determined criteria) evaluated by advisor will be collected for final assessment at the end of 2nd semester 		<ul style="list-style-type: none"> • Advisory committee • Course coordinator
	Students conduct their own research following in the plan determined in proposal	14 Dec 2021 – 3 Jan 2022	

week	Activities	Date and Venue	Instructors
2nd semester			
1 – 3	Students conduct their own research following in the plan determined in proposal	4 – 23 Jan 2022	
3	Research Progress Students make their own progress reports by filling in the Form BR_SP_04 (Progress report)	17 Jan 2022, 16.30 Online submission in Google classroom	Course coordinator
4	Progress Report Presentation Students will present the research progress by power point presentation (10 min. for presentation and 2 min. for discussion) **Progress presentation in Class**	24 Jan 2022 8.00 – 17.00 Room: be announced later	<ul style="list-style-type: none"> • Course coordinator • Advisory committee
	Research Report		
5 – 6	Course coordinator will give the instructions for making the Research report, Poster and Abstract	Date, Time and Room will be announced later	Course coordinator
5 – 12	Students will <ul style="list-style-type: none"> • Analyze their own collected data • Discuss their own results scientifically • Make the research report followed in the determined format • Consult with the advisory committee 	1 Feb – 27 Mar 2022	Advisory committee
13	Students have to <ul style="list-style-type: none"> • fill in BR_SP_05 Form (Form for presentation of the research report) • submit the form to the course coordinator 	28 Mar 2022, 16.30 Online submission in Google classroom	Course coordinator
12 – 13	Students prepare the power point presentation of research report	21 Mar – 3 April 2022	Advisory committee
14	Brief Report presentation Students will present their Report to advisory committee for suggestion / improvement of PPT presentation	4 April 2022	Advisory committee
14	Report presentation Student will present their own research report (13 min. for presentation and 12 min. for Q/A) **Report presentation in Class**	9 - 10 April 2022 8.00 – 16.00 Room: to be announced later	<ul style="list-style-type: none"> • Course coordinator • Advisory committee • All CB Staffs
14 – 15	Students consult with advisory committee for; <ul style="list-style-type: none"> • editing the research report • prepare the Abstract and Poster 	4 – 17 Apr 2022	Advisory committee
16	Abstract and Poster submission Course coordinator will collect all abstract and poster for Science Project Exhibition	18 Apr 2022, 16.30 Online submission in Google Classroom	Course coordinator

week	Activities	Date and Venue	Instructors
17	Poster presentation (in CB Class)	25 Apr 2022 Time will be announced later	Course coordinator
20	Complete Report Students have to <ul style="list-style-type: none"> • make the completed research report which have been approved by advisory committee • fill in the BR_SP_06 Form • submit the Form and complete research report to course coordinator 	16 May 2022, 16.30 <ul style="list-style-type: none"> • Hard copy submission at room L319 • PDF file submission in Google classroom 	Course coordinator
20 – 21	MUKA Science Project Exhibition	Date and Time will be announced later	MUKA Science Exhibition committee
20 – 21	Course Assessment Course coordinator will collect the score from all activities for grading (Grade A – F)		Course coordinator

11. Course Assessment

No.	Methods / Activities	CLOs	Semester/ Week	Weight (%)	
1.	Comprehensive Examination	1	1 / 9	15	Course coordinator, All lecturers
2.	Project Proposal	2 – 3	1 / 19	10	Advisory Committee
3.	Project Progress	4	2 / 3	5	Advisory Committee
4.	Project Report	4 - 5	2 / 20	40	Advisory Committee
5.	Project Presentation				
	5.1 Proposal presentation	6	1 / 15	4	All lecturers, CB Students
	5.2 Progress presentation	6	2 / 4	4	All lecturers, CB students
	5.3 Report presentation	6	2 / 14	4	All lecturers, CB Students
	5.4 Poster presentation	6	2 / 17	4	All lecturers, CB Students
	5.5 Science Exhibition presentation	6	2 / 20	4	MUKA Sci Ex committee
6.	Attention and participation	7	All week	10	Course coordinator
	Total			100	

12. Grading System

Grading system in this course is based on criterion-referenced evaluation as following

Grade	A	B+	B	C+	C	D+	D	F
Total Score	≥ 80 %	75 – 79%	70 – 74%	65 – 69%	60 – 64%	55 – 59%	50 – 54%	< 50 %

Note: If students did not submit Project proposal and/or Complete report, they will get “grade I”