



Summer A 2022	Meeting Times
Credits: (3) May 30 th – June 17 th , 2022	In Thailand: May 30 th – June 10 th , 2022 Class times vary In U.S.: June 11 th – June 17 th , 2022 9:00 am – 12:00 pm, Tuesday and Thursday Bee Laboratory, Building 0964.

ENY 4905 Beekeeping in Asia

COURSE DESCRIPTION AND LEARNING OBJECTIVES:

The western hemisphere is home to only one honey bee species and the management of that species is essentially the same throughout the world. This course will allow students to discover the amazing diversity of honey bee species and the different ways in which people manage them. Students in this course will be exposed to Asian beekeeping as they explore different management styles and beekeeper purposes in Thailand. Students will visit multiple beekeeping operations throughout the country of Thailand and be immersed in the local culture.

Successful students will be able to:

1. Compare and contrast Asian and American beekeeping styles, purposes and techniques,
2. Summarize how wild unmanaged honey bee species differ from those that are managed,
3. Identify common American and Asian beekeeping practices that should be modified, and

4. Create an ePortfolio to highlight their unique experience with Asian apiculture.

INSTRUCTOR:

Dr. Cameron Jack (cjack@ufl.edu), Rm 114 Entomology and Nematology (Honey Bee Lab – Bldg 964)
Dr. Jamie Ellis (jdellis@ufl.edu), Rm 116 Entomology and Nematology (Honey Bee Lab – Bldg 964)
Dr. Guntima Suwannapong (beefambuu@gmail.com) Burapha University, Chon Buri, Thailand.

MEETING TIMES: Students will meet in Chon Buri, Thailand on June 1st. We will be in Thailand from June 1st – June 12th. During this time, we will meet as a class for in class lectures and many field learning experiences. Please pay attention to the schedule, as our class meeting times change from week to week. Students will meet in person in Gainesville during the week of June 15th

REQUIRED TEXT: Suwannapong, G. (2019). *Honeybees of Thailand*. ISBN: 978-1-53616-159-5

Recommended Text: Oldroyd, BP and S. Wongsiri. (2006). *Asian honey bees: biology, conservation and human interactions*. ISBN: 978-1-53616-159-5

OFFICE HOURS: Office hours will be held immediately after each class while in the U.S. Meetings are available only by email appointment. Given the uncertainty of the course location and timing once in Thailand, please call if you are having a problem or require immediate assistance. Instructor’s cell numbers will be provided during the first day of class.

COURSE POLICIES:

APPROPRIATE ATTIRE:

Students will interact with honey bees regularly throughout our time in Thailand. Protective equipment, such as beekeeping suits, veils and gloves will be provided. Students are required to wear closed toed shoes. Shoes that cover the ankles (such as hiking boots) provide the most protection from stings around the ankle area. We also recommend that students wear pants (rather than shorts, dresses, skirts, etc.) to class.

HONEY BEE STINGS:

Stings are likely to occur when working in/around honey bee colonies. Working directly with live honey bee colonies is a significant component of the course. Students with severe (anaphylactic) allergies to honey bee stings should not take this course. If you have never been stung and are unsure of your allergy status, we recommend that you visit an allergist to obtain precautionary allergy response training/treatment (e.g. an EpiPen). All students are required to read the provided document on honey bee stings prior to attending the first day of class. Questions related to this assignment will be included in the first quiz.

GRADING:

Assignment	Points	% of grade
Attendance/Participation (15 class meetings, 10 points each day)	150	30
Weekly Online Quizzes (3 quizzes, 25 points each)	75	15
Reflection Essays (3 Reflections, 20 points each; 5 point for review)	75	15
Course Project: ePortfolio	200	40

GRADES AND GRADE POINTS:

For information on current UF policies for assigning grade points, see catalog.ufl.edu/UGRD/academic-regulations/grades-gradingpolicies/.

GRADING SCALE:

FINAL GRADING		
% grade	Letter grade	Points needed to achieve letter grade
100-93	A	≥ 465
90-92	A-	450 – 464
87-89	B+	435 – 449
83-86	B	415 – 434
80-82	B-	400 – 414
77-79	C+	385 – 399
73-76	C	365 – 384
70-72	C-	350 – 364
67-69	D+	335 – 349
63-66	D	315 – 334
60-62	D-	300 – 314
0-59	E	0 – 299

ATTENDANCE/PARTICIPATION:

Attendance and participation are mandatory for this course. Cumulatively, attendance and participation for each day of class will be worth 150 points. Students are expected to arrive to designated meetings on time and tardiness will result in a reduction of attendance points for that day. This course is designed to provide students with hands on learning experiences. Therefore, students are expected to participate and be engaged in all activities for the duration of the class period; failure to do so will result in a reduction of participation points for that day up to 10 points. No make-up opportunities are available for attendance/participation without a university excused absence. No family, friends, spouses, etc. are allowed to attend any of the classes.

CLASS QUIZZES:

There is an online quiz associated with each week of class. Each quiz is worth 20 points and will include approximately 10 questions. Quizzes are open note, but individual. Students are required to complete the readings before taking the quizzes. **Quizzes are due by 8:30 am the Monday morning of the corresponding week.** No late quiz submissions will be accepted without a university excused absence.

REFLECTION ESSAYS:

Students are required to write a reflection essay once per week we are in Thailand. This means that students must, in their own words:

- 1) provide a concise description of what was learned and experienced from the lectures and class and
- 2) review another student's essay, providing constructive feedback.

Each essay must be between 300 - 500 words. Proper terminology, spelling, and grammar are expected in all posts. Each Reflection Essay is worth 20 points and each review is worth 5 points. A rubric for writing the essays will be provided. **Reflection Essays are due by 11:59 pm the Friday of each week.**

ePORTFOLIO:

Electronic portfolios are a collection of your learning experiences you obtain through your academic program, accessible electronically. Examples of such learning experiences might include term papers, presentations (video, power point, etc.), images, videos, reflections, blog posts, podcasts or any form of digital item used to demonstrate learning or acquired skills. ePortfolios are becoming quite popular and are used to present your "professional" or digital self to others. This study abroad course is unique and will provide students with a new global perspective. ePortfolios will help you demonstrate your engagement in international experiences, beekeeping and broad topics.

Your ePortfolio will incorporate all of your reflective essays written while in Thailand. You will also be expected to share photos and/or videos during the course. If you have made an ePortfolio before, you can add to it. If you have not made an ePortfolio before, take this opportunity to do your best so you can use it to house future learning experiences. A rubric for grading the ePortfolios will be provided.

ABSENCES AND MAKE-UP WORK:

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/

COURSE SCHEDULE:

*Bold times are dedicated class time. Underlined times indicate time spent together traveling.

Week	Class	Date	Topic/Activity
1	1	30 May Mon.	<u>6:30 – 11:00 am</u> Travel to Khao Yai National Park, Nachonratchasema and area (14.434960, 101.413342 – 14.419667, 101.371685) 1:30 – 4:30 pm: Guest lecture by Dr. Rath Pintchavankula – Beekeeping with <i>Apis cerana</i>
	2	31 May Tues.	9:00 – 11:00 am: Observe <i>Apis dorsata</i> colonies 1:30 – 2:30 pm: Observe other <i>Apis</i> species in the area <u>2:30 – 3:30 pm:</u> Travel to Phanom Run Historical Park
		1 June Wed.	Free day at Khao Yai National Park
	3	2 June Thur.	<u>6:30 – 8:30 am</u> Travel to DMK Airport <u>10:00 – 11:00 am</u> Flight to Chiang Mai <u>12:30 pm</u> arrive at Chiang Mai University: Department of Biology (18.795943, 98.952312) 2:00 – 5:00 pm: Guest lecture at Dr. Panuwan Chantakul Pests and diseases of Asian honey bees and their controls. Observe different mite species in university laboratory
	4	3 June Fri.	<u>8:00 – 9:00 am</u> <i>Apis mellifera</i> colonies. Travel to commercial beekeeper operation, Supa Beefarm, and others (18.912430, 98.935908) 9:00 am – 12:00 pm: Sample Asian beekeeping products (honey, brood, royal jelly). Observe how honey bee products are marketed and sold. 2:00 – 5:00 pm: Royal jelly production in <i>Apis cerana</i> Quiz 1 and Essay 1 due
	5	4 June Sat.	<u>8:00 – 9:00 am</u> Travel to Maejoe University, Chiang Mai (18.898352, 99.013317); 9:00 – 11:00 am: Guest lecture from Professor Siriwat Wongsiri <u>1:30 pm</u> Travel to Doi Suthep Temple
		5 June Sun.	Free day in Chiang Mai
	2	6	6 June Mon.
	6	7 June Tues,	<u>9:00 – 10:00 am</u> Travel to <i>Apis ceranae</i> beekeeping

			operation 10:00 am – 12:00 pm: Tour of bee farm 2:00 – 5:00 pm: Guest lecture from beekeepers
	7	8 June Wed.	<u>6:30 – 9:30 am</u> Agricultural Extension and Development Center Chumphon for <i>A. cerana</i> Beekeeping (10.195028, 99.108183) 9:30 am – 12:00 pm: Stingless bee colonies 2:00 – 5:00 pm: Find <i>Apis andreniformis</i> colonies
		9 June Thur.	<u>5:30 – 6:30 am</u> Travel to Surathani airport <u>8:00 – 9:00 am</u> Fly to Bangkok Visit King's Palace Khao San Road night market
	8	10 June Fri.	9:00 am – 12:00 pm: Visit center of excellence at Department of Biology, Chulalongkorn University (Guest lecture by Professor Chanpen Chanchao) Shopping in Siam Square <u>8:00 – 8:30 pm</u> Travel to Bangkok airport <u>11:00 pm</u> Return flight to Florida Quiz 2 and Essay 2 due
3	9	14 June Tues.	9:00 am – 12:00 pm: Debrief and compile experiences and essays into ePortfolios
	10	16 June Thur.	9:00 am – 12:00 pm: Debrief and compile experiences and essays into ePortfolios 2:00 pm – 5:00 pm: Finishing touches on our ePortfolios
		17 June Friday	ePortfolios due Quiz 6 and Essay 6 due

SCHEDULE DISCALIMER: This schedule represents current plans and objectives. These plans may need to change throughout the semester due to unforeseeable circumstances (i.e. inclement weather). Such changes will be communicated through announcements on Canvas and in person.

UF POLICIES:

ONLINE COURSE EVALUATION PROCESS:

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their canvas course menu under GatorEvals, or via ufl.bluera.com/ufl/.

Summaries of course evaluation results are available to students at gatorevals.aa.ufl.edu/public-results/.

ACADEMIC HONESTY:

UF students are bound by the honor pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the honor code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The honor code (sccr.dso.ufl.edu/process/student-conduct-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

SERVICES FOR STUDENTS WITH DISABILITIES:

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, dso.ufl.edu/drc) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

CAMPUS RESOURCES:

Health and Wellness

U Matter, We Care: If you or someone you know is in distress, please contact <mailto:umatter@ufl.edu>, 352-392-1575, or visit umatter.ufl.edu/ to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: visit counseling.ufl.edu/ or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: call 352-392-1161 for 24/7 information to help you find the care you need, or visit shcc.ufl.edu/.

University Police Department: visit police.ufl.edu/ or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: for immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer road, Gainesville, FL 32608; ufhealth.org/emergency-room-trauma-center.

Academic Resources

E-Learning Technical Support: contact the [uf computing help desk](#) at 352-392-4357 or via e-mail at helpdesk@ufl.edu.

Career Connections Center: Reitz Union Suite 1300, 352-392-1601. career assistance and counseling services career.ufl.edu/.

Library Support: cms.uflib.ufl.edu/ask various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center: Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring. teachingcenter.ufl.edu/

Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers. writing.ufl.edu/writing-studio/

Student Complaints On-Campus: SCCR.DSO.UFL.EDU/POLICIES/STUDENT-HONOR-CODE/STUDENT-CONDUCT-CODE/

On-Line Students Complaints: distance.ufl.edu/student-complaint-process/