

**Department of Biology, Faculty of Science
Mahidol University
SCBI 453 Coevolution**

First Semester

Time: Wednesday 0930-1120

Lecturers: Nuttaphon Onparn (NO)
John R. Milne (JM)

Academic Year 2012

Room: N516

Week	Date	Topic	Lecturer
1	13 June 2012	Orientation	NO
2	20 June 2012	Introduction to coevolution	NO
3	27 June 2012	Species interactions and character displacement	NO
4	4 July 2012	Evolutionary arms race	NO
5	11 July 2012	Molecular coevolution	NO
6	18 July 2012	Cospeciation	NO
7	25 July 2012	Human and coevolution	NO
8	1 August 2012	Herbivory - Introduction - Physical and temporal defense	JM
9	8 August 2012	Midterm examination	NO
10	15 August 2012	No Class (Open House 2012)	
11	22 August 2012	- Second metabolites - Plant nutrition value	JM
12	29 August 2012	- Induced defense - Plant defense mutualism	JM
13	5 September 2012	- Herbivore offense - Ehrlich & Raven Coevolution	JM
14	12 September 2012	- Testing coevolution - Alternative to coevolution	JM
15	19 September 2012	Applications of Coevolution	JM
16	26 September 2012	Future Directions in Coevolution	JM
17	3 October 2012	Final examination	JM

Marking: Midterm examination 40%
Final examination 40%
Group discussion 10%
Report and presentation 10%

Course coordinator: Nuttaphon Onparn (email: Nuttaphon.onp@mahidol.ac.th; tel no. #5478)

References:

- Campbell, N. A., & Reece, J. B. (2005). *Biology* (7th ed ed.). San Francisco, Calif. ; London: Pearson Benjamin Cummings.
- Futuyma, D. J. (1998). *Evolutionary biology* (3rd ed.). Sunderland, Mass.: Sinauer.
- Ridley, M. (1993). *Evolution*. Oxford: Blackwell Scientific.
- Smith, T. M. and R. L. Smith (2006). *Elements of ecology*. San Francisco ; London, Pearson Benjamin Cummings.pp256-331.
- Thompson, J. N. (1994). *The coevolutionary process*. Chicago ; London, University of Chicago Press.