1. Will this course revision affect a current program?  
   □ Yes  □ No  
   If "yes", has a Program Revision Form been submitted concurrently?  
   □ Yes  □ No

2. Teaching Department:  
   Biology

3. Administering Faculty/Unit:  
   Science

4. Campus  
   (Downtown, Macdonald, Off Campus, Distance Ed, Other – specify)  
   Downtown

5. Effective Term of Implementation  
   (Ex. Sept. 2004 = 200409)  
   Term: 200701  
   □ Retirement

6. Responsible Instructor:  
   F. Guichard & M. Loreau

7. Credit Weight  
   (or CEU's for non-credit CE courses):  
   3
   Old Credit Weight or CEU’s (if applicable)  
   3

8. Course Number(s)  
   Indicate course number & the number of terms spanned:  
   (tick all that apply)  
   Subject/course number: BIOL 434
   Course(s) Span:  
   □ 1 term  
   □ 2 consecutive terms (D1, D2)  
   □ 2 non-consecutive terms (N1, N2)  
   □ 3 consecutive terms (J1, J2, J3)

9. Number Change From:  
   BIOL 534

10. Consolidation of Courses:  

11. Split of Multi-Term Course:  

12. Course Title (Limit 30 char.) - required for all courses.  
   Theoretical Ecology
   Old Course Title (if applicable)

13. Course Title to Appear in the Calendar (Optional)  
   (Limit 59 characters):  
   Note: This can ONLY be an expansion of word(s) abbreviated in the 30 character course title in Box 12.

14. Rationale for revised course  
   With the recent addition of new colleagues in the Department of Biology, many of whom conduct research in areas related to theoretical, the field of theoretical ecology has become an important part of our curriculum and an increasing number of new advanced undergraduate and graduate courses require that students acquire a strong background in this field. This background is currently lacking in the undergraduate curriculum, and we believe that teaching Theoretical Ecology as a 400 course would greatly improve the progression of our undergraduate teaching in ecology, thus better preparing students to take advanced 500 and 600 courses such as BIOL 510 (Community Ecology), BIOL594 (Advanced Evolutionary Ecology) and courses in preparation such as Spatial Ecology (Guichard) and in Community and Ecosystem Ecology (Loreau).

   Also, BIOL 534 was meant to be an advanced course covering selected and advanced topics in theoretical ecology. Because of the reason detailed above, the course had to be progressively adapted to the general lack of background in theoretical ecology from students. As a result, the content of BIOL 534 has become more compatible with a 400 course and we think it will be more accurate to make the content of the course consistent with its level in the Biology curriculum.

15. New Course Description  
   (as it will appear in the Calendar [maximum 50 words]):  
   (N.B. Faculty of Medicine must append complete course outline)  
   Study of theoretical ecology and of mathematical tools available to explore the dynamical behaviour of model populations, communities and ecosystems. Models addressing major ecological theories including population stability, community dynamics and ecosystem functioning, epidemic and disturbance dynamics, spatial models, game theory.

16. Old Course Description  
   (may be found in the Calendar or Banner)  
   Advanced topics in theoretical ecology. Mathematical and computational tools available to explore the dynamical behaviour of model populations and communities. Models addressing major ecological theories: population stability, diversity and community functioning, epidemic and disturbance dynamics; spatial models, game theory, complex-system theories.
17. Supplementary information to appear in the Calendar in addition to the course description.
   Such as: equivalent course(s), contact hours, enrolment limitations, language of instruction etc.
   Please enter the information as it should appear in the calendar notes.

18. Schedule Types(s):
   (Enter all that apply – see course guidelines for a complete list.)

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   Total Hours per Week: 3
   Total Number of Weeks: 3

19. Projected Enrolment:
   30

20. Revised Prerequisite(s) (Courses or Tests) (in full)
   Specify course number(s) or name(s) of test(s):
   BIOL 308 or BIOL 309 or permission of instructor

   If the student does not have a prerequisite should web registration be blocked?
   Yes ☐ No ☑

   If “Yes” complete A and B:

   A. Indicate minimum grade or test score(s) the student must attain in prerequisite course(s) or test(s):

   B. Can the prerequisite course(s) or test(s) be taken in the same term as this course?
   Yes ☐ No ☑

   Old prerequisite course number(s) or test score title(s) (if applicable)
   BIOL 308 and either BIOL309 or BIOL373

21. Revised Corequisite(s) Course Number(s) (in full):
   Specify course number(s):

   If the student does not register for the corequisite in the same term should web registration be blocked?
   Yes ☐ No ☑

   Old corequisite(s) course numbers (if applicable):

   22. Revised Restriction(s):

   Old Restriction(s):

   23. Additional Course Charges (must be approved by the Fee Policy Committee)
   Description of Fee (e.g. screening fee)
   Amount

   24. Requires Teaching, Physical, or Financial Resources
   Not Currently Available (attach explanation)
   Yes ☐ No ☑

   25. Consultation Reports Attached
   Yes ☐ N/A ☑
### 26. Approvals:

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<th>Routing Sequence</th>
<th>Departmental Meeting</th>
<th>Departmental Chair</th>
<th>Other Faculty</th>
<th>Curric/Academic Committee</th>
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Departmental Contact Person (name/phone/email)  
SUSAN GABE/ 7045/ SUSAN.GABE@MCGILL.CA

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