### Course Revision Form

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: Physics

3. Administering Faculty/Unit: Science

6. Responsible Instructor: J. Cline

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

8. Course Number(s)
   - Subject/course number: PHYS 673
   - Course(s) Span:
     - 1 term
     - 2 consecutive terms (D1, D2)
     - 3 consecutive terms (J1, J2, J3)

9. Number Change From: 

10. Consolidation of Courses: 

11. Split of Multi-Term Course: 

12. Course Title (Limit 30 char.) - required for all courses.
   - Quantum Field Theory 2
   - Old Course Title (if applicable) Theoretical High Energy Physics

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.
   - Quantum Field Theory 2

14. Rationale for revised course
   - The content of this course has changed over the years. The new title and description more accurately reflect the current content of the course.

15. New Course Description
   (as it will appear in the Calendar [maximum 50 words]):
   - Continuation of quantum field theory from PHYS 610. Loop diagrams, renormalization, Abelian and nonabelian gauge theory, QCD, introduction to the Standard Model.

16. Old Course Description
   (may be found in the Calendar or Banner)
   - Introduction to quantum field theory; perturbation theory and Feynman diagrams. Applications to quantum electrodynamics, quantum chromodynamics and electroweak (Weinberg-Salam) theory.
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.)

<table>
<thead>
<tr>
<th>Hours per Week</th>
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**Total Hours per Week:** 3

**Total Number of Weeks:** 13

19. Projected Enrolment:
10

20. Revised Prerequisite(s) (Courses or Tests) (in full)
Specify course number(s) or name(s) of test(s):

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):

- [ ] Yes
- [ ] No

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):

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)

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<tr>
<th>Description of Fee</th>
<th>Amount</th>
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24. Requires Teaching, Physical, or Financial Resources
Not Currently Available (attach explanation)

- [ ] Yes
- [ ] No

25. Consultation Reports Attached
- [ ] Yes
- N/A
### 26. Approvals:

<table>
<thead>
<tr>
<th>Routing Sequence</th>
<th>Departmental Meeting</th>
<th>Departmental Chair</th>
<th>Other Faculty</th>
<th>Curric/Academic Committee</th>
<th>Faculty</th>
<th>SCTP</th>
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<tr>
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J. Cline, 398-5848, jcline@physics.mcgill.ca