BGEN 4010
Course Description

1. Projects will be designed by appropriate supervisors in consultation with the student. Normally, faculty members will supervise only one project course student in each academic year. Projects will be assessed by the course coordinator and the department head to confirm suitability prior to registration for the course. A written outline of the project shall be forwarded to the department coordinator by Monday, October 17, 2016. The outlines should consist of no more than 2 pages and should contain the objectives of the proposed study as well as a brief outline on the methods to be used to achieve the objectives. One should use references if necessary, however, please use the format outlined for the project report.

2. Students will be expected to have prepared a literature review +/- interim report by the end of the first term. Students progress will be reviewed by the supervisor, coordinator and department head at this time. The literature review should concisely summarize the current knowledge in the field of research. The length should be 1/4 to 1/3 the size of the final report making it range from 2 to 7 pages. This document should include a bibliography. The last day these reports will be accepted is Friday, December 09, 2016- 4:30 PM. You may submit your reports to me by Email to gietz@cc.umanitoba.ca

(Note: For those submitting by email, please use your last name and BGEN4010 as the email subject line. Thank you!)

3. A draft of the final written report should be given to the supervisor and coordinator by Monday, February 27, 2017.

4. A final report should be given to the supervisor, coordinator and department head by Friday, March 31, 2017*.

5. The date for the presentations must be before early May (the marks needed to be submitted in early May). All students should forward the date of their last exam to me as soon as possible so the date of the presentations can be finalized.

These deadlines will not be extended except in exceptional circumstances. Requests for extensions should be made to the coordinator in writing - email R.D. Gietz for permission. *Late submissions of reports will be penalized by 20%.
Evaluation

1. Satisfactory Laboratory work usually consists of three to six hours per week for each of two terms. This is worth 20% of the mark in this course. (This mark is given by the supervisor.)

2. Presentation of results in a seminar format is worth 20% of the mark.
   a. The presentation should be approximately 15 minutes in duration and appropriately illustrated with slides and/or transparencies.
   b. Following the oral presentation, there will be a 5-10 minute question period during which the speaker will be expected to answer question relating to his or her presentation.
   c. Students will be evaluated on their presentation by their supervisor, the course coordinator, department head and all other faculty with students enrolled in the course.

3. Completion of a written report on the project is worth 60% of marks.
   a. This report should follow the usual format of a published scientific paper. It should be submitted in 1.5 spacing in a 12 size font that is easy to read.
   b. It should be a minimum of 10 pages and a maximum of 20 pages in length exclusive of figures, tables and references.
   c. References should include the names of all authors, title of article, and source, including inclusive pages numbers.
   d. Conclusions should include some original thought, e.g. projection of future avenues of research, speculation about future data, etc.
   e. Reports will be marked in regard to both content and style by their supervisor, the course coordinator, department head and all other faculty with students enrolled in the course.

The student is reminded about the University regulations relating to plagiarism - see article 8.1 of the (U of M General Calendar).

This course is described in the General Calendar - Faculty of Medicine - Biochemistry and Medical Genetics

Link to course outline (on Aurora) and type in BGEN4010 for details

Notes for preparation of the final report

The final report should be written in the formal style of a scientific paper.

1. Arrange your report in section with heading, e.g. Introduction, Materials and Methods, Results, and Discussion. It is often convenient to number the major sections 1,2,3, etc., and to add subsections as follows
   1.

   1.1
1.1.1 etc.

2.

2.1

2.2

2.2.1 etc.

3. if you add or delete subsections you do not have to renumber every subsequent section and subsection or learn to have word do it for you.

2. Use the past passive tense.

3. Avoid words such as "done, saw, got, etc." (Please note data is a plural noun).

4. The Introduction should include the background to the study, as well as the hypothesis being tested or the objective being examined.

5. Each Table should have a heading at the TOP and each figure a caption at the BOTTOM. Table headings and figure captions should describe the subject matter. Tables and Figures are numbers in their own series, i.e. Table1, Table2, Figure1, Figure2. Tables and figures should be placed close to the text to which they refer.

   Some scientists find it easier to prepare their tables and figures before writing the text of the results.

6. A useful reference is; How to write and publish a Scientific Paper by R.Day and published by Oryx Press. This book is available through the University of Manitoba Library system.

7. Project reports submitted by students from previous years are available in the Department of Biochemistry and Medical Genetics library - room 340 Basic Medical Sciences Building.

Most research should be completed by the end of study week. The date of the oral presentations will be determined after the final exam timetable is announced (usually last week in April first week in May). Time will be required to prepare your oral presentation, including transparencies, slides, etc., and to rehearse it.

All requests for extensions of deadlines must be made in writing to Dr. R. D. Gietz.