Justification
The overall goal of this IDP class is to introduce a specific number of subjects in the broad field of physiology of aging. In class, we will discuss the readings assigned and explore the subject in more detail by student presentations. The meeting will begin with a brief introduction to the subject by the lecturer. This will be followed by presentations of the assigned readings, in PowerPoint format, by students. Usually these papers will be assigned on a weekly basis to make sure we have the most up-to-date literature and that we also incorporate individual interests in the reading. By the end of the course, you should have a solid foundation in a number of areas related to research on aging and also acquire the skills needed to seek out and learn more about this exciting field.

Prerequisites
GMS 6400C Principles of Physiology (or Course Director permission)

Catalog description
GMS: This course will discuss the effect of the aging process on the physiology of energy metabolism and the impact to systems involved in maintaining physical and cognitive function. This will include a discussion of changes to skeletal muscle and neurological systems that are known to become dysregulated with age.

Course Format and Grading:
Frequency of class: Course is taught twice per week
Duration of class: Each session will be held for 1 ½ hrs. One hour or less of lecture and the remainder student presentations of a paper associated with the subject, chosen by the lecturer.

Grading:
Grading
Class attendance = 10%
Class participation = 10%
2 Presentations* = 30%
Midterm Exam = 25%
Final Exam = 25%
Total = 100%

*Number of presentations depends on the class size. Typically less then 10 students are enrolled. Hence, students will present no more then two times. Each presentation is worth 15% of the grade.

Grading Scale

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<td>A</td>
<td>90 or above</td>
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<td>A-</td>
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<td>B+</td>
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Examinations:
The exams will have two parts. One part consists of multiple choice items and the other portion of the exam is short essay exams that will cover the reading material and in-class discussions.

There are no make-up examinations unless otherwise granted by the course coordinator prior to an examination date. If personal circumstances prevent the taking of an examination, it is the student responsibility to contact the course coordinator. Failure to take an examination without prior permission will be recorded as a 0.

Class Attendance Policy:
Attendance to classes is required.

Course Participation:
Ask at least 1 thought/question that contributes to class learning in each class.

Presentation
Presentations will be assessed incorporating the following components:
1. Introduce the question
2. Background
3. Statement of the hypothesis
4. Methods
5. Results
6. Interpretation
7. Limitations
For a particular topic, the lecturer and the course director will provide you written feedback on your presentation on a weekly basis including strengths, weaknesses and the grade. In addition, we will also provide feedback on your level of class participation. This way, you may make adjustments in real time to your presentations and participation.

**Texts and reading**

The information in the following textbook and aging research website is coordinated with the in-class discussions. These textbook is not required, but chapters from the book and website will be used for reading, presentation and discussion material.