Facility Sponsor: Marcus Roper  
Research Mentor: Mike Lindstrom (instructor)  
Office: MS 5622  
E-mail: mikel@math.ucla.edu

Weekly Group Meetings and Lectures: Thurs 4-5:30 pm  
Course Description: Studying potential causal mechanisms between diet and increased risk of dementia

Expectations:  
Researching and analysis/coding: 3-6 h/week (2 credits)  
Report Writing: 0-2 h/week (2 credits)  
Weekly Meetings/lectures: 2-3 h/week (2 credits)

Grading Scheme:  
Attendance and Research: 45% (attending meetings, task work and completion)  
Oral Exam: 20% (individual questions about the math and work)  
Final Presentation: 10% (presenting the work as a group to public audience)  
Midterm Report: 5% (written report of overall findings mid-quarter)  
Final Report: 20% (written paper of overall findings of the work)

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<tr>
<th>Week</th>
<th>Research Activity</th>
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<tr>
<td>1</td>
<td>Research meetings and/or lectures</td>
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| 5    | Research meetings and/or lectures  
F: May 3rd – Midterm report due by 5 pm |
| 6    | Research meetings and/or lectures |
| 7    | Research meetings and/or lectures |
| 8    | Research meetings and/or lectures |
| 9    | Research meetings and/or lectures |
| 10   | Research meetings and/or lectures  
R or F: Final presentation |

Exam Week  
M-F: Oral exams  
F: June 14th – Final report due by 5 pm

* Lecture topics could include: numerical techniques for differential equations, asymptotic analysis, physical modelling, etc. Not every week will have a lecture; some of these topics may be covered and others not listed may be relevant.