

FDNS4550/6550: Nutritional Biodynamics
Spring Semester, 2003
Room 264 Dawson Hall, 2:00-3:15 p.m., Tu/Th

Nutrients as precursors for organ and cell components and energy stores, emphasizing processes of turnover, growth, biosynthesis, and metabolism. Students will explore quantitative and dynamic issues using computer modeling and will read original articles and books to locate existing models and valid information.

Prerequisite: FDNS 3100 or permission of instructor

Instructor: Dr. James L. Hargrove
Office: Room 280/276 Dawson Hall
Telephone: 542-4872 or -4678; E-mail: jhargrov@fcs.uga.edu
Office Hours: One hour after class or by appointment

Textbook: Dynamic Modeling in the Health Sciences, 1998
Dr. James L. Hargrove
Springer, NY

Required course material: The textbook is required along with the CD for mathematical modeling software that is found on the back cover of the textbook.

Assignments:

1. Modeling exercises
2. Full research paper
3. Presentation of research paper

Week due:

End of every 2nd week
Friday before Spring Break
Final week

Attendance Policy: Attendance is required and will be monitored. Up to 100 points will be available for classroom participation, which includes attendance.

Make Up Exams: Make up exams will be given for students who miss classes for reasons including family emergencies and absences due to collegiate athletic team travel.

Grading:

1. Class participation (100 points)
2. Modeling exercises (100 points)
3. One exam (100 points)
4. Classroom presentation (100 points)
5. Research paper* (200 points)

Total of 600 points

*Graduate Students will be expected to complete a research paper that reviews at least 6 extra references from the biomedical literature and is approximately 6 pages longer than the papers required of undergraduates. Final Exam will consist of student presentations of models and research results. Out of the total points available, $\geq 90\%$ = A, $\geq 80\%$ = B, $\geq 70\%$ = C, $\geq 60\%$ = D, $<60\%$, F