HBIO-202L – Nutrition for Life
Units: 4 units
Spring 2021, MWF 10:00 AM -10:50 AM
All Labs will be ONLINE only.

Location: MHP 101
Instructor: Bob Girandola, Ed.D.
Office Hours: Wed 8:00 AM – 9:00 AM; Thurs 11:00 AM – 12:00 PM
Contact Info: Telephone: (213) 740-6151
Email: girandol@usc.edu

Lecture: 3 hours/week
Laboratory: 2 hours/week

T: 8:00 AM – 9:50 AM
W: 12:00 PM – 1:50 PM, 2:00 PM – 3:50 PM
Th: 8:00 AM – 9:50 AM, 10:00 AM – 11:50 AM, 2:00 PM – 3:50 PM

HBIO 202L is being offered as a HYBRID course during the Spring 2021 semester. That means the course will be taught simultaneously in class and online. However, students do not have to attend live to take the class, it is an option. All labs are online. HOWEVER, due to ongoing COVID problems the Spring 2021 semester will begin ONLINE for all students.

There will be no Spring Break during the 2021 Semester, There will be “Wellness” days, no classes on these days. They include the following: March, 12, 23, April 7, 22, 30.

Course Description:
This course will deal with the principles related to proper nutrition for optimal health. The medical problems associated with obesity and the relationship between diet, exercise and health will be explored. Class will focus on developing an understanding of Nutrition, especially as it pertains to good health and prevention of certain diseases. Laboratory experiences will help students gain knowledge of appropriate body stature and body composition and the role that exercise plays in maintaining caloric balance.

Required Text:

I. Objectives:
A. To understand the process by which the body digests and assimilates the micronutrients contained in food in order to support normal body functions.

B. To apply knowledge of energy intake and energy expenditure to make food choices that promote maximal health and exercise performance.

C. To give students opportunity with lab and lecture to be able to take measures of height, weight, BMI and body composition.

D. To give students the knowledge of Nutrition including Macro and Micronutrients.

E. To give students an understanding of the role of diet in health and longevity.

II. Class Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Overweight and underweight concepts. Body composition vs BMI</td>
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<tr>
<td>2</td>
<td>Concepts of Caloric balance</td>
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<tr>
<td>4</td>
<td>National and Global obesity statistics.</td>
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<tr>
<td>5</td>
<td>Obesity and diseases</td>
</tr>
<tr>
<td>6</td>
<td>First Mid-term Exam</td>
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<tr>
<td>7</td>
<td>Myths and realities in weight control, separating fact from fiction.</td>
</tr>
<tr>
<td>8</td>
<td>Hunger and satiety; How and why we eat as we do. Food addiction.</td>
</tr>
<tr>
<td>9</td>
<td>Digestion and absorption, anatomy and physiology of the GI Tract. Disorders of the GI tract including oral health, ulcers, gall bladder disease and other intestinal problems such as Celiac disease and Irritable bowel syndrome. How to maintain GUT health.</td>
</tr>
<tr>
<td>10</td>
<td>Caloric nutrients, CHO: Simple vs Complex The “Sugar” syndrome.</td>
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<tr>
<td>11</td>
<td>Caloric nutrients, cont. Glycemic Index</td>
</tr>
<tr>
<td>12</td>
<td>Second Mid-term Exam</td>
</tr>
<tr>
<td>15</td>
<td>Micronutrients: Vitamins and minerals. Fat and water soluble vitamins and their role in health. Macro and trace minerals and their role in health. Diseases related to vitamin/mineral deficiency.</td>
</tr>
<tr>
<td>16</td>
<td>Food safety, food borne illnesses. Nutrition through the life cycle, infancy to old age and special populations. Choosing the right diet using the Food Pyramid and My Plate</td>
</tr>
<tr>
<td>17</td>
<td>Learn to eat healthy!</td>
</tr>
</tbody>
</table>

III. Grading, Grading Scale, and Make-up Policy:

25% 1st Midterm
25% 2nd Midterm
25% Final Exam
25% Laboratory grade

**Grading Scale:** Each exam will be curved and assigned a letter grade based upon the following criteria:
- Average score = C
- Average score + 1 Standard Deviation (SD) = B
- Average score + 2 SD = A
- Average score – 1 SD = D
- Average score – 2 SD = F

**Make-up Policy:** IF a student has a legitimate excuse for missing the mid-term or final exam, a make-up exam in ESSAY format will be given at a mutual date determined by the instructor and student.

**IV. Tentative Lecture Schedule:**

<table>
<thead>
<tr>
<th>Week of</th>
<th>Lecture Topic</th>
<th>Reading</th>
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</thead>
<tbody>
<tr>
<td>1 Jan 15</td>
<td>Concepts of Overweight and Underweight: height-weight scales, body mass index, body composition, and methods of assessing body composition</td>
<td>Ch. 20</td>
</tr>
<tr>
<td>1 Jan 18</td>
<td>Concepts of Caloric Balance Jan 18 is MLK day, university holiday</td>
<td>Ch. 20,22</td>
</tr>
<tr>
<td>3 Feb 1</td>
<td>National and Global obesity,</td>
<td>Data from CDC, WHO</td>
</tr>
<tr>
<td>4 Feb 8</td>
<td>Obesity and Diseases: Cancer, Diabetes, Gout, others.</td>
<td>Ch. 9,23, CDC, etc.</td>
</tr>
<tr>
<td>5 Feb 15</td>
<td>Myths and realities in Weight Control and healthy eating: Separating fact from fiction. Presidents Day Holiday on Monday Feb 15</td>
<td>Ch.3,4</td>
</tr>
<tr>
<td>6 Feb 22</td>
<td>Hunger and Satiety: role of the hypothalamus, physiological cues, psychosocial cues, and fat-cell morphology and their role in hunger-satiety. Food addiction. First Mid Term Exam this week</td>
<td>Ch. 1,2</td>
</tr>
<tr>
<td>7 Mar 1</td>
<td>Digestion and Absorption, anatomy and physiology of the GI Tract. Disorders of the GI tract including oral health, ulcers, gall bladder disease and other intestinal diseases such as Celiac disease and Irritable bowel syndrome. How to maintain GUT health</td>
<td>Ch 6</td>
</tr>
<tr>
<td>8 Mar 8</td>
<td>The Caloric Nutrients, CHO: Simple vs. Complex. The “Sugar” syndrome. Are there good and “bad” carbs? Do carbs make us fat?</td>
<td>Ch. 7,8</td>
</tr>
<tr>
<td>9 Mar 15</td>
<td>The Caloric Nutrients, cont., CHO, Understanding the Glycemic Index and caloric balance. Fats, Saturated vs. Unsaturated Fats, Cholesterol,</td>
<td>Ch. 8,10</td>
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</tbody>
</table>
*** Students will NOT be allowed to take an exam if they arrive more than 20 minutes past the hour! First and second midterm exam dates are approximate.

V. Laboratory Component

**Lab Director:** Anh-Khoi Nguyen, Ph.D. (agnguyen@usc.edu)

**Lab Instructors:**
Alexis Camacho, M.S.; ascamach@usc.edu
Bara Floyd, M.S.; gbfloyd@usc.edu
Helaine Lopes, Ph.D., ATC; lopes@usc.edu

Laboratories will be one 2-hour/week for the semester.

### Statement on Academic Conduct and Support Systems

**Academic Conduct:**

Plagiarism – presenting someone else’s ideas as your own, either verbatim or recast in your own words – is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Part B, Section 11, “Behavior Violating University Standards” policy.usc.edu/scampus-part-b. Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on scientific misconduct, policy.usc.edu/scientific-misconduct.
Support Systems:

*Student Health Counseling Services* - (213) 740-7711 – 24/7 on call
engemannshc.usc.edu/counseling
Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

*National Suicide Prevention Lifeline* - 1 (800) 273-8255 – 24/7 on call
suicidepreventionlifeline.org
Free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week.

*Relationship and Sexual Violence Prevention Services (RSVP)* - (213) 740-4900 – 24/7 on call
engemannshc.usc.edu/rsvp
Free and confidential therapy services, workshops, and training for situations related to gender-based harm.

*Office of Equity and Diversity (OED) | Title IX* - (213) 740-5086
equity.usc.edu, titleix.usc.edu
Information about how to get help or help a survivor of harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants. The university prohibits discrimination or harassment based on the following protected characteristics: race, color, national origin, ancestry, religion, sex, gender, gender identity, gender expression, sexual orientation, age, physical disability, medical condition, mental disability, marital status, pregnancy, veteran status, genetic information, and any other characteristic which may be specified in applicable laws and governmental regulations.

*Bias Assessment Response and Support* - (213) 740-2421
studentaffairs.usc.edu/bias-assessment-response-support
Avenue to report incidents of bias, hate crimes, and microaggressions for appropriate investigation and response.

*The Office of Disability Services and Programs* - (213) 740-0776
dsp.usc.edu
Support and accommodations for students with disabilities. Services include assistance in providing readers/notetakers/interpreters, special accommodations for test taking needs, assistance with architectural barriers, assistive technology, and support for individual needs.

*USC Support and Advocacy* - (213) 821-4710
studentaffairs.usc.edu/ssa
Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

*Diversity at USC* - (213) 740-2101
diversity.usc.edu
Information on events, programs and training, the Provost’s Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

**USC Emergency - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call**
dps.usc.edu, emergency.usc.edu
Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible.

**USC Department of Public Safety - UPC: (213) 740-6000, HSC: (323) 442-120 – 24/7 on call**
dps.usc.edu
Non-emergency assistance or information.