DNS ADVISING NOTES: OVERVIEW OF COURSE REQUIREMENTS FOR NUTRITIONAL SCIENCES – COLLEGE OF AGRICULTURE AND LIFE SCIENCES (CALS) FOR STUDENTS ENTERING AUGUST 2012

See CALS graduation requirements at http://www.cals.cornell.edu/cals/current/registrar/current-students/cals-graduation/cals-graduation-requirements.cfm

It is the student’s responsibility to understand and to meet college and major requirements. All major requirements must be taken for letter grade.

1. NATURAL SCIENCES

Introductory biology, 8 cr [BIOG 1500 plus two intro bio lectures OR BIOG 1105-1106]
Introductory chemistry, 8 cr [CHEM 2070-2080 or 2150-2160]
Organic chemistry lecture, 3-8 cr [CHEM 1570 (not for pre-med), 3570-3580, or 3590-3600]
Organic chemistry lab, 2-4 cr [CHEM 2510 or CHEM 3010]
Physiology, 3 cr [NS 3410(3)] or BIOAP 3110(3)]
Biochemistry, 4-6 cr [NS 3200(4)], [BIOMG 3300(4)], [BIOMG 3310(3) + BIOMG 3320(2)], or [BIOMG 3310(3) + BIOMI 2900(3)], [BIOMG 3350(4)] or [BIOMG 3330(4)]
No additional credit for NS 3200 if the above biochemistry courses are taken to fulfill biochemistry requirement, and vice versa.

For special career interests:
- Premed: CHEM 3570-3580 [6 cr] and Physics 1101-1102 or 2207-2208 [8 cr]
- Dietetics: Microbiology, 3 cr, [BIOMI 2900] AND Human Anatomy and Physiology lab, NS 3420 [2 cr].
- Exercise Science: Both NS 3410 [3 cr] and NS 3420 [2 cr]. Strongly recommend: Physics, 8 cr. [PHYS 1101-1102 or 2207-2208]

2. NUTRITIONAL SCIENCES  [Count toward 55 required cr in CALS. Letter grade only]

Core courses, 16 cr:
- NS 1150 Nutrition, Health and Society [F,3]
- NS 2450 Social Science Perspectives on Food and Nutrition [F,3]
- NS 3450 Nutritional and Physicochemical Aspects of Foods [F,3]
- NS 3310 Physiological and Biochemical Bases of Nutrition [S,4]
- NS 3320 Methods in Nutritional Sciences [F,3]

Advanced electives in Nutritional Sciences, 9 cr NS courses at 3000 level or above. May include only 3 cr of NS 4000, 4010, 4020, or 4990. May include NS 3410 only if BIOAP 3110 is taken to meet physiology requirement. May not include NS 3200, NS 3500, NS 4600 and NS 3980.

For dietetics: Additional dietetics NS courses at 3000 or above will be counted toward this requirement.

3. SOCIAL SCIENCES, HUMANITIES, and COMMUNICATION

Humanities and Social Sciences, 12 credits (4 courses of 3 or more credits) as per CALS college distribution requirements.

For dietetics: PSYCH 1101 is required. Check “DUST” for more information about course selection.

Written and Oral Expression (9 cr) must include at least 6 cr of written expression; select from First year Seminars, English, and Communications courses as per CALS distribution requirements.

4. QUANTITATIVE & ANALYTICAL

Calculus or Advanced Math: 3 -4 cr. Select from Math 1105 [3], MATH 1106[4], MATH 1110[4], MATH 1120 [4], BTRY 1150 (4 cr), or a score of 4 or 5 on the AP calculus exam.

Statistics: 4 cr. Select from AEM 2100 [4], BTRY 3010 [4], MATH 1710 [4], SOC 3010 [4], or PSYCH 3500 [4], PAM 2100 [4], ST SCI 2100/ILRST 2120 [4]

Calculus and higher level math is generally needed for premed or grad study.

5. ELECTIVES IN AGRICULTURE & LIFE SCIENCES  [Count toward 55 required cr in CALS]

9 cr from ANY of the following areas selected with faculty advisor to support student’s interests and goals. (These courses MAY NOT also be applied to Social Science, Humanities, Communication, or Math/Statistics distribution requirements (3-4 above)).

Areas of elective study:
- Food Production and Marketing: courses in Food Science; Animal Science; Plant Science; Biological and Environmental Engineering; International Agriculture and Rural Development. (FOOD 1500 may NOT be used because is redundant with NS 1150.)
- Food Policy: courses in Applied Economics and Management; Developmental Sociology; and International Agriculture and Rural Development, Plant Breeding.
- Life sciences: courses in Biological Sciences, Plant Sciences, Animal Science, Horticulture, Plant Breeding and Genetics, and Plant Pathology. (MAY NOT include introductory biology, physiology, or biochemistry courses used for Natural Sciences requirement. MAY include BIOAP 3110 only if NS 3410 is used for physiology requirement. MAY include BIOMI 2900 if other biochemistry courses are taken to meet biochemistry requirement.)
- Environment: courses in Natural Resources; Crop and Soil Sciences; and Applied Economics and Management