

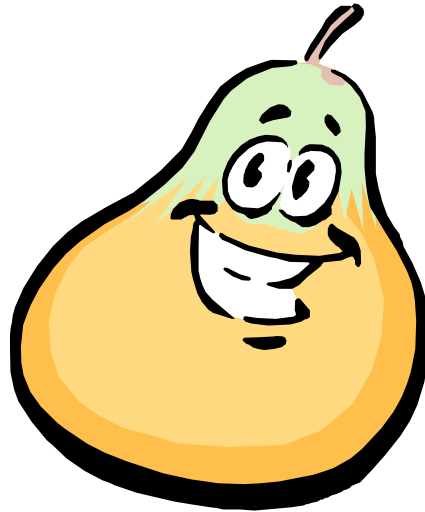
Undergraduate Handbook



**College of Agricultural and Life Sciences
Institute of Food & Agricultural Sciences
University of Florida**

Undergraduate Handbook

Food Science and Human Nutrition Department
College of Agricultural and Life Sciences
Institute of Food and Agricultural Sciences



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With thanks to Dr. R. Elaine Turner for her significant contributions

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Couldn't find it here? Contact the FSHN Student Services Office, and we'll be happy to answer any questions you have regarding our program (or life in general): 392-1991, ext. 220



Welcome to FSHN!

The Food Science and Human Nutrition Department welcomes you into our program. The mission of the FSHN Department is “to provide progressive and effective programs in teaching, research, and extension which meet the needs of the citizens of Florida, and benefit the nation.” What this means, in part, is that we take our undergraduate program very seriously and that we care about our students, both academically and personally. We want to give you a high-quality education and help prepare you for your chosen career. You will find our faculty and staff to be very student oriented, so please feel free to ask for our help if needed.



General Information

We are located in the Food Science and Human Nutrition (FSHN) Building, just behind McCarty Hall D. This building really doesn't have another name (unless you count “Building 475”). If you need further assistance please go to the [UF map](#).

The FSHN Department has faculty in teaching, research and extension in various offices and labs in this building and in other areas both on and off campus, including the Food and Environmental Toxicology Lab, Aquatic Food Products Lab (right next to FSHN), and the Lake Alfred Citrus Research and Education Center (see page 23 for a faculty list, and check out the faculty picture board located at the base of the front staircase). **Dr. Charles Sims** is the Interim Chair of FSHN, and he is located in Room 130 of the Taste Panel Building.

The department offers a Bachelor of Science in Food Science and Human Nutrition with three main areas of specialization. You must choose a specialization, as you can't graduate with a generic FSHN major. You'll find more information on these specializations on page 3. More than 700 lower and upper division students are currently enrolled in this major, making us one of the largest academic programs in the College of Agricultural and Life Sciences. However, we work very hard to make sure that each one of our students gets individual attention from academic and faculty advisors, and we're confident that our size doesn't interfere with the quality of our advisement.



Acronyms You Should Know

The following acronyms will be used shamelessly throughout the text of this Handbook, and also in your courses, in the FSHN Department, and across the UF campus. (We assume you know what “UF” is.) Be familiar with them and you'll know what we're talking about:

FSHN	Food Science & Human Nutrition; refers to our main building, department, and major (you will also see our building referred to as “FSN” in the Schedule of Courses)
CALS	College of Agricultural and Life Sciences; the college under which FSHN is administered (the CALS Dean's Office is located in 2002 McCarty Hall D)
IFAS	Institute of Food & Agricultural Sciences; the administrative umbrella over CALS as well as the Florida Agricultural Experiment Station (Research) and the Florida Cooperative Extension Service
ISIS	Integrated Student Information System; a web-based system you can use to register, check your transcripts, view your degree audit, etc. (www.isis.ufl.edu)
CIRCA	Center for Instructional & Research Computing Activities; part of the Academic Technology Office (for assistance with GatorLink contact the UF Computing Help Desk, located in the HUB, Room 132)
CRC	Career Resource Center; located in the Reitz Union, provides a variety of services to students including internship placement and interview skill development
IFT	Institute of Food Technologists; the national professional organization for food scientists that approves our Food Science curriculum
ADA	American Dietetic Association; the national professional organization that oversees dietetics programs and accredits our Dietetics curriculum



Academic Advising

FSHN has an Undergraduate Student Services Office located in Room 103 of the FSHN Building (the ground floor). There are 2 full-time academic advisors located there, [Janna Underhill](#) and [Nicole Young](#), as well as an advising assistant, [Mindy Edwards](#). They are happy to help with general questions, academic matters, and registration. This office also houses student records, academic forms, and is the home to the FSHN Club.

Advising hours vary by semester, and office hours are posted on the door of Student Services and sent out over e-mail every semester. We try to keep the office open continuously during walk-in advising hours, but as a result of meetings, illness, vacations, etc. there are exceptions. The advising hours can be found [here](#) or by emailing Mindy Edwards. You will also be assigned a faculty advisor within your chosen curriculum, and FSHN expects you to maintain close contact with him or her. Think of your faculty advisor as your career advisor – whereas Janna and Nicole can take care of most of your academic needs and help you with course scheduling and general life planning, your faculty advisor can provide you with valuable career advice and help you obtain research or professional experience. Your Faculty Advisor's name is listed on the bottom of your degree audit on ISIS. You should also know FSHN's Undergraduate Coordinator, [Dr. Anne Kendall](#). If you cannot make your academic advisors' walk-in hours, you can either e-mail your assigned advisor or see your faculty advisor instead (Mindy makes faculty advisor appointments).

Remember, before you meet with any advisor you should make sure you have the necessary paperwork with you, filled out ahead of time if appropriate, and that you're seeing the right person. **Generally, lower division students (1AG, 2AG a.k.a. freshmen, sophomores) and non-degree seeking students (0AG) should be seeing their assigned academic advisor; upper division students (3AG, 4AG, 6AG a.k.a. juniors, seniors, post-bac students), who should already have most of their academic questions answered, should be seeing their faculty advisor for career advice.**

Also, make sure you schedule enough time; if you just drop by or only schedule ten minutes of time, and you need to plan out your entire schedule for the next few years and discuss career options, there might not be enough time and you may have to come back later. Keep in mind that during peak times (drop/add, registration, etc.) FSHN Student Services might be forced to limit advising sessions to just ten minutes, so get all your big questions answered during slower parts of the semester.

To avoid confusion about whom you should contact first, we've compiled a list of common questions along with the name of who can best address each one:

<u>Question</u>	<u>Who to See</u>
What if I'm a new student, and I'm not sure what to do next?	Mindy
Who assigns me a faculty advisor?	Nicole
Who puts me on the correct listserv?	Janna
How do I get an appointment with a faculty advisor?	Mindy
Who can help me fix a problem with my degree audit?	Janna or Nicole
Where do I get scholarship applications?	Mindy
What if I need help with course scheduling or registration?	Janna, Nicole or Mindy
What if I have a hold on my record and can't register?	Janna and Nicole
What if I have a 3 rd term tracking hold?	Dr. Anne Kendall
Who can answer questions about the Honors Program?	Dr. Anne Kendall
Who can help me with career planning?	Faculty Advisors
How do I drop a class?	Janna, Nicole or Mindy
What about taking a class at another college?	Janna and Nicole
Who signs my financial aid petitions?	Janna or Nicole
What if I'm having academic or personal problems?	Janna, Nicole, or Faculty Advisor
Who can help me spruce up my resume, or proofread my letters?	Janna or Nicole
What if I'd like to see my student file?	Mindy
What if I need a letter of recommendation?	Faculty Advisors
What if I'd like to get some research experience?	Faculty Advisors
What if my grades are slipping and I'm worried?	Janna, Nicole, or Faculty Advisors
What if I'm not sure I'm in the right major or specialization?	Janna or Nicole
Where can I get information on graduate school?	Faculty Advisors
Who can help me make sure I'm ready to graduate?	Janna or Nicole
Help! Required courses conflict during my last semester!	Janna or Nicole



FSHN Specializations

Within the FSHN major, there are three main specializations: Nutritional Sciences, Food Science, and Dietetics. See FSHN Student Services for curriculum sheets that list all required courses (and when those courses are taught), as well as sample schedules for each specialization. Here's an overview of each one:

Food Science

Professional Food Scientists are involved in many disciplines, including nutrition, quality assurance and sensory evaluation, chemistry, engineering and packaging, microbiology, biotechnology, toxicology and safety. For this reason, the Food Science curriculum emphasizes a strong technical background, with elective options important to employment in the food industry, government agencies or as preparation for graduate study. The Food Science curriculum is approved by the Institute of Food Technologists (IFT), the professional society of the discipline.

Students with a degree in Food Science have obtained employment in many state, national and international food corporations. Most Food Science graduates work in the areas of quality control, food safety, research and product development, or technical support and sales. In addition, the curriculum will prepare students for graduate study leading to advanced opportunities in food companies, government and academia. Opportunities to become involved in leadership roles in the FSHN Club and through competitions at national IFT meetings are considerable.

Dietetics

Dietetics is a challenging profession that applies the science of food and nutrition to the health and well-being of individuals and groups in a variety of settings. The dietetics curriculum provides courses in biological and physical sciences, math, communications, economics and business combined with in-depth courses in lifecycle nutrition, medical nutrition therapy, metabolism, community nutrition and counseling. The Didactic Program in Dietetics (DPD) is accredited by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association (ADA), 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312/899-0040, ext. 5400. Successful program completion enables students to compete for placement in dietetic internships, a required step in becoming a Registered Dietitian. Students may also pursue graduate school following completion of the BS degree.

Registered Dietitians (RDs) are employed in hospitals and other health care facilities, government and public health agencies, food companies, schools and universities, private practice and a variety of other settings. Opportunities are also increasing for RDs to be employed in wellness and fitness programs and in sales and marketing for business and industry. Students interested in dietetic internships should obtain volunteer or work experience with an RD, and participate in leadership opportunities within the FSHN Club or other clubs on campus. To be competitive for dietetic internships, students should maintain a GPA ≥ 3.2 .

Nutritional Sciences

The Nutritional Sciences curriculum is designed for preprofessional students who plan to enter medical, dental, pharmacy, optometry or other health-related professional schools or graduate school. Nutritional Sciences emphasizes a strong, broad background in biology, math and chemistry. Its requirements closely match the prerequisites for most professional schools, and it provides a background in nutrition that is sometimes lacking in other programs. It provides an excellent foundation for graduate study in nutrition, health and other science fields. Nutritional Sciences also offers the Honors Combined BS/DMD Program, a 3+4 pharmacy program, and participates in the UF Junior Honors Medical Program. See Student Services for details.

Graduates from this curriculum have entered medical, dental, pharmacy, osteopathic, podiatry, optometry, chiropractic, physician assistant, veterinary and other professional programs. Research oriented students have entered graduate programs in nutrition, biochemistry or other science-related fields. Entrance requirements for professional schools vary, although admission to UF Medical School requires an average GPA of 3.8 and admission to UF Dental School requires an average GPA of 3.6. Students should contact the Office of Admissions of the schools in which they are interested for information on the average GPA, MCAT, DAT, or other test scores as well as for specific admission dates and policies.



FSHN Minors

Food Science

The Food Science minor provides an overview in general food science, safety and sanitation, quality control, government regulations, and certification in HACCP Systems. This minor is open to all students at the university. A minimum of 15 credits, all completed with grades of C or better, and a minimum cumulative 2.5 GPA in the minor are required.

Nutritional Sciences

The Nutritional Sciences minor provides an overview of nutrients, nutrient requirements throughout the life cycle and metabolic regulation of nutritional pathways. A minimum of 15 credits is required and includes four core courses plus one or more electives. A minimum cumulative 2.5 GPA for all minor course work is required.



Preprofessional Students

If you are a pre-medical, pre-dental, pre-pharmacy, pre-optometry, or pre-veterinary student, it is important that you visit the Office of Health & Legal Professions Advising in the Academic Advising Center in Farrison Hall near the center of campus. Also, FSHN Student Services can provide you with some information on preparing for and applying to professional programs, and we have some nifty resources (such as a guide to all the medical, dental, pharmacy, and optometry schools). Be sure to notify your advisor of your career goals, and take a look at the Preprofessional Student Handbook (available on the web at <http://www.advising.ufl.edu/prehealth/>). Remember, it's **your** responsibility to make sure you're fulfilling preprofessional prerequisites. Use the library, the Internet, your faculty advisor and other resources to make sure you're prepared to apply to these programs.



Transfer Students

If you're transferring into FSHN from another accredited institution, your prior coursework will transfer to UF (your GPA will not – it starts over at UF). You may transfer up to 60 credits that count towards your degree from any Associate of Arts program, but you may be able to transfer additional coursework from other 4-year institutions (though keep in mind that your last 30 hours must be completed in residence at UF). Most transfer students are required to complete 60 credits at UF to earn their degree. Equivalence of course content for transfer in Florida is based upon a common course numbering system. CALS requests that specific questions or concerns about transfer from another institution into FSHN be directed to their office at (352) 392-1963.



Degree Audits

UF evaluates your academic progress in reference to the completion of the requirements for our major using a degree audit. At the beginning of each semester you should check your degree audit on ISIS to make sure everything looks okay. The information contained in this audit is the same information that will be used to certify eligibility for graduation; therefore, it is essential for you to review this information to make sure that your personal records and University records match. If you believe that a requirement has been met but the audit says it's missing, or you just need help reading it, come to the FSHN Student Services Office so we can assist you.

You should also check to see that your audit reflects your correct specialization – if you are following an audit for the wrong specialization, you may not be able to graduate on time. At the top of your audit you will see a three-letter classification (see next page). You can also find out who your faculty advisor and academic advisor are by looking at the **bottom of your degree audit**. If either of these things is missing or wrong, contact FSHN Student Services.

Food Science

Undergraduates: **FOS**
 Post-bac LTHET students: **PBF**

Dietetics

Undergraduates: **DIE**
 Post-bac students: **PBD**

Nutritional Sciences

Undergraduates: **NUT**
 Junior Honors Medical Program: **NUT**
(with comments added to the top of the audit)
 Honors Combined BS/DMD program: **DEN**
 3+4 Pharmacy Program: **PHA**



Holds and Tracking

Academic Holds

You are currently being “tracked” using the audits mentioned above. This is to help determine if you are making progress in your major, not to torture you. If we (UF, CALS, or the FSHN Department) determine that you are “off track” in a particular semester, then a hold may be placed on your record, preventing you from registering and forcing you to come talk to us. All students are required to complete all tracking courses by the end of their sophomore summer. The minimum tracking GPA for the FSHN major is a 2.5, and the tracking courses are listed in bold on each curriculum sheet. If you feel you will have difficulty completing courses on time, please come to FSHN Student Services to discuss your situation with an advisor.

This is how it works: your first semester is tracking semester “1,” during which you are expected to complete one tracking course (these are listed in boldface in the [Undergraduate Catalog](#)). If you complete one tracking course (even if it isn’t the exact one listed), you are considered “on track” for the major. So if you take CHM1025, CHM2045, MAC1147, or MAC2311, you’re okay. If you take more than one tracking course, that’s great. But if you don’t take any tracking courses your first semester, you’re already off track and must see an advisor ASAP.

Your second semester is tracking semester “2,” during which you should complete at least two tracking courses, and so on. You are generally expected to complete 2 tracking courses each semester after tracking semester “1,” keeping in mind that summers are **never** considered tracking semesters; they are “catch up” semesters to help get you back on track. If you fall behind in tracking, consider attending summer school at UF. Consult your [Undergraduate Catalog](#) or FSHN Student Services to determine tracking courses for your specialization.

If you receive a **third term tracking hold for GPA or courses or both**, you are required to meet with FSHN Undergraduate Coordinator Dr. Anne Kendall to either review options for leaving the major or to develop a plan to try to improve your standing in the major. To make an appointment with the Undergraduate Coordinator, contact FSHN advising assistant Mindy Edwards. The third term tracking hold cannot be removed by academic or faculty advisors.

As of catalog year 2007-2008, FSHN majors are required to complete Organic Chemistry 1 (CHM2210) with a grade of C or better in two attempts including withdrawals. A C- does not count, and will result in you having to retake the course. If you are having difficulties meeting this requirement, make an appointment with your academic advisor immediately to discuss your options.

If you need help understanding the system, or a hold has been placed on your record, contact FSHN Student Services. You may have a hold because you’re off track or have a low tracking GPA (this is a GPA based solely on tracking courses – you must have a 2.5 average in those courses to remain in the major). Try to avoid both of these situations by seeing your advisor before you fall behind. In the event you already have a hold, we will work with you to determine why it was placed and develop a plan of action with conditions you must meet so that we can remove the hold. Please note that we can’t remove all holds – if CALS or UF Financial Services placed the hold, only they can remove it!

Hold, Hold, and more Holds

There are several types of UF holds that can prevent you from registering for the next semester, adjusting your schedule during drop/add, and/or graduating. The university will place a hold on your record for financial debts, registration prep, international requirements, the CLASR requirement and emergency contact information. Please check ISIS every semester for holds. The most common holds besides tracking holds are financial holds and emergency contact holds. Financial holds can be placed any time during the year and deal with tuition bills, unpaid parking tickets, printing jobs, broken bottles from a lab course or library fees. An emergency contact information hold is placed on your record every four months, usually coinciding with advance registration. Note that it normally takes 24 hours to update your record once you update your information in ISIS.



Electives and Extra Credit Hours

Most FSHN students have some free electives included within the 120 credit hours required for graduation, and are free to choose **any** courses they wish for these electives. Whereas we don't enforce any particular electives, we are happy to guide you to a specific area that may benefit you most in your chosen field or just an area of interest for you, or courses that will help you complete a minor (see pages 18-21). If you are an upper division (3AG, 4AG) preprofessional student, you should consider choosing electives that are 3000 level and above, because medical and dental schools prefer these to 1-2000 level courses.



Course Loads

Minimum full-time course load is 12 hours for both fall and spring semesters. It's also 12 hours for summer C or 6 hours for either summer A or summer B. (summer semesters are all "added together" to come up with your total course load.) Students with less than the minimum load are considered part-time students, which is okay with us but probably not a really great idea if you wish to attend medical or dental school someday (they look at how many credit hours you take each semester as well as the types of courses you take). Keep in mind that full-time enrollment is required for some financial aid benefits at UF, to hold office in any student organization, for CALS & FSHN scholarships, and to receive your season football tickets. Part-time students with any enrollment can use UF facilities and join student organizations.

Maximum course load for fall, spring, or summer is 18 credits. You must obtain special permission from the CALS Dean's office in order to enroll for more. We do not encourage students to take more than 18 hours, as most students don't do that well with huge course loads (especially if they also work or are involved on campus). Students on probation are advised to meet with an academic advisor to schedule a proper course load for success.



Registration

In spring and fall semester there is period of time called "advance registration." This is the time when all current students are allowed to register for the upcoming semesters. In the spring semester you register for the upcoming summer and fall semesters; in the fall semester you are able to register for the spring semester. Each current UF student is assigned a day and time to register based on your credits earned at UF. The day and time is not assigned by this office, it assigned by the Office of the Registrar. They are not negotiable and the Office of the Registrar will not make an exception to the rule.

You are advised to register during advance registration rather than waiting for regular registration (the day before classes start), because your chances of getting the right classes are much greater the earlier you register. Once you receive your advance registration appointment (you can find this on ISIS), use it! Don't wait until the end of advance registration, and definitely don't wait until after advance registration. You should also make sure that you

don't have any holds on your record prior to registering; meet with your academic advisor or your faculty advisor **before your registration appointment** to make sure your record is clear and to work out which courses you will take (please see pages 29-31 for advising worksheets). Sometimes it takes longer than you think to clear a hold from your record, and the classes you want could close in the meantime! Have all your section numbers and alternate course section numbers right in front of you before you log onto ISIS. Remember, you need your GatorLink information to enter the ISIS system. Please use the [Schedule of Courses](#) online to determine your schedule for the upcoming semester. The Schedule of Courses will list all courses offered for that semester, click on "Course Listings."

Certain specialized courses are listed in the Schedule of Courses with a "DEPT" section number rather than a four digit section number. This designation usually means it's a distance education course or that you are required to get permission from the instructor or the department in order to register for that course. You can find out more information about DEPT courses in the FSHN Student Services Office. Be careful not to sign up for graduate courses (5000-level and above) by accident, even if the section numbers are provided. A graduate seminar is **not** an attendance-based course – you will be expected to present an hour-long research seminar!



Taking Courses outside UF

You may take courses at other colleges and use them to meet FSHN requirements if: 1) they are equivalent to UF courses or being used for electives (ask FSHN Student Services), 2) they are not taken within the last 30 hours prior to graduation (your last 30 hours must be taken at UF – the "residency requirement"), 3) prior approval is obtained from your academic advisor, 4) you have a minimum UF GPA of 2.0, and 5) you earn a grade of C or better in the course(s) taken elsewhere as well as an overall GPA of 2.0 or greater at that other institution. It is the student's responsibility to submit an official transcript to UF once the course is complete!

After discussion with your adviser, a student should initiate the process of requesting transient enrollment by going online to www.facts.org. In the "College Students" section, click on "taking courses at another school" and follow the instructions. Use your GatorLink ID and password to sign-on, but note that this website will only allow a maximum of 12 characters in your GatorLink ID and only letters and numbers in your password. Students may have to change one or both before using this online system, since paper forms are no longer accepted (unless you are planning to attend a school that is not listed on facts.org, such as a private school or an out-of-state school, see below). Once you have submitted the online form, Emelie Matthews from the CALS Dean's Office will make the final approval on your transient form.

If a hard copy transient form is required, you will complete Section A of the Transient Student Form and also sign the CALS Policy on Transient Enrollment Form; both these forms can be found in FSHN Student Services. Your academic adviser completes Section B and then you bring both forms to Emelie Matthews in 2002 McCarty Hall D for college approval. If approved, then you walk the Transient Student Form to the UF Registrar in Criser Hall. Once they stamp it, you then mail the completed form to the other school.

It is strongly recommended that you avoid splitting course sequences (e.g., you shouldn't take CHM2045 & Lab at UF and then take CHM2046 & Lab somewhere else). If you are thinking about that option, please see Janna or Nicole to discuss. If you are interested in taking courses at Santa Fe College (SFC), you are required to meet with our Undergraduate Coordinator, Dr Anne Kendall for approval. You must provide Dr. Kendall with a 2 paragraph justification statement detailing why you want to enroll at SFC. You should also avoid taking community college courses once you are an upper division student.

To find course offerings from institutions in Florida, contact the Registrar of that school or visit their website. If you are unsure of course equivalences, meet with your academic advisor for clarification. If you're interested in overseas study, it is your responsibility to bring that course information to FSHN Student Services so that we can determine equivalency. In some cases, your faculty advisor may need to determine course equivalency.



Dropping and Adding

During the drop/add period (first five days of fall or spring semesters and first two days of each summer semester), dropping and adding courses is fairly easy and is done through ISIS. After the drop/add period, you can only drop a course within certain guidelines. University of Florida allows each student **two** free lower division drops (prior to completing your first 60 credits here at UF) and **two** free upper division drops (after you have completed 60 credits here at UF). If you have not used your drops from your first 60 credits, they cannot be used or held for your last 60 credits. In other words, no rollovers are allowed. All drops require FSHN approval (come to FSHN Student Services to begin the process), and will be processed by CALS. Please see your Student Financial Aid (SFA) counselor before dropping a course after the drop/add period. Recent changes to Bright Futures may affect you if you decide to a drop course(s) after this time frame. The SFA office is located in S-107 Criser Hall. Your counselor is assigned by the last 2-digits of your UFID number.

All lower division students must have their form signed by their Academic Advisor in FSHN Student Services. Upper division/post-bac students must have their form signed by their Faculty Advisor.

Once you have used up your free drops, the Dean's Office will not approve other drops just because you are doing poorly in a course; you must have significant extenuating circumstances (medical, financial, personal, etc.) that prevent successful completion of the course. If you have these circumstances, you may be eligible to complete CALS petition for a third course drop. The petition form requires both academic advisor and instructor signatures as well as extensive documentation. Once the form is completed, you must speak with Interim Associate Dean Dr. Allen Wysocki in the CALS Dean's Office. The form can be found [online](#), in FSHN Student Services, or in the CALS Deans Office (2002 McCarty Hall D).

All free drops must be accomplished before the "deadline to drop a course by college petition" date listed on ISIS and in the [Undergraduate Catalog](#). After this date, to drop a course you must come to FSHN Student Services to discuss petitioning, and then speak to Interim Associate Dean Dr. Allen Wysocki in the CALS Deans office, 2002 McCarty Hall D. If you need to drop a course(s) due to **medical reasons**, whether it is before or after the last day to drop a course, you still should speak with us first, then to someone in the CALS, prior to processing that paperwork in Peabody Hall (UF Student Services, 392-1261). Refund of course fees is based on University policy and is dealt with by petition. For details about refunds please contact Student Financial Services at 392-0181.

Adding a course after the drop/add period can be accomplished through the same procedure as dropping a course, although adding is usually less trouble than dropping. Generally, if the professor teaching the course gives you permission to add the course late, permission will be granted by both FSHN and the CALS as long as you do it **as soon as possible** (1-2 days after) after drop/add. If you decide you want to add a course after several days have passed, it is less likely to be approved. You should consult FSHN Student Services for forms and further information.



Withdrawing from UF

Sometimes it is necessary for a student to withdraw from school. If you are doing poorly in most of your courses or having medical, personal, or financial problems, withdrawing is something to seriously consider. Before you do anything, come talk to your assigned academic advisor in FSHN Student Services or to your faculty advisor and we'll help you explore alternatives and/or begin the process of withdrawal. Generally, withdrawing will not affect your ability to return to UF the next semester, and in most cases students can still graduate on time (with a little help from FSHN Student Services).

Note: if you intend to withdraw for two or more consecutive semesters, you will have to apply for readmission.



Graduation

We want you to graduate on time, as do your parents and your loan officer. In order to help us help you, you should meet regularly with your academic advisor or your faculty advisor to make sure that you're on track and that you register for the courses you need, when you need them. If you don't see an advisor, and you receive no assistance with course planning, it is possible that you will have problems later on.

In order to graduate, it is also necessary for you to apply for the degree by the deadline listed on ISIS. The application can be completed online through ISIS, just click on "Degree Application" in the left menu bar. If you miss this deadline, you can always apply late by completing late degree application, which you can find online: <http://www.registrar.ufl.edu/pdf/latedegreeapp.pdf>. Please be aware that your name will not be listed in the commencement program that semester if you apply late. If for some reason you end up not graduating that term you'll have to reapply the next semester. It's also important that you check in with FSHN Student Services or your faculty advisor one semester before you intend to graduate – this way we will have time to help solve any problems that arise. A common mistake is assuming that because you have completed all required courses you are ready to graduate. However, you need at least 120 credit hours to graduate, and the State University System does not make exceptions to this rule. **So please check over your audit – don't let an elective keep you from your diploma!**

If you have completed all degree requirements UF and CALS expect you to apply for graduation. After the degree application deadline, CALS receives from the Registrar's Office a list of students who have met degree requirements but have not applied to graduate. Those names are forwarded to the undergraduate coordinator in their department for follow-up, and registration holds are then placed. Any requests to delay graduation must be made in writing by the student and approved by Associate Dean Dr. Elaine Turner. Requests will be approved in limited circumstances, such as for study abroad or internship experiences. If a student has met all degree requirements, does not apply for graduation and does not have approval to delay graduation, CALS will submit a late degree application on the student's behalf.

We ask that you notify the FSHN Student Services Office of your post-graduation plans before the end of the semester in which you are graduating. This helps us keep track of where our alumni are going. We also ask that you respond to the CALS survey, e-mailed to all graduating seniors prior to graduation. These statistics help us all to improve our programs, and your input can have a direct, positive impact on the experiences of future students.



Honors Programs

There are a number of honors opportunities/programs available to high-achieving students and sometimes the specific requirements get a bit confusing, so we'll try to sort everything out here. If you have questions, or want more information, contact Student Services for details.

UF Honors Program

This is for lower-division students only. Students are invited to participate as entering freshmen based on high school GPA and SAT or ACT scores. Consult the Honors program website (<http://www.honors.ufl.edu/>) for more details. Students in this program may take required or elective courses as honors courses (enrollment limited to 25 students per section).

Graduating *cum laude*, *magna cum laude*, or *summa cum laude*

In order to graduate *cum laude* (with honors), you must have a minimum upper division GPA of 3.50. In order to graduate *magna cum laude* (with high honors) or *summa cum laude* (with highest honors), you must have an upper division GPA of 3.75 for *magna* or 3.85 for *summa*, and also complete an approved research project or creative work and submit an honors thesis based on that work.

If you are conducting research (or intend to conduct research) with a faculty member/research advisor and plan to write a thesis, you must submit a one page outline to your FSHN Faculty Advisor for approval. This outline should include: 1) the objectives of the project, 2) a brief description of the project, and 3) your role in the project. The FSHN Department will then prepare a signature page for your thesis. Two members of the FSHN Undergraduate Committee will be asked to review your final report and sign the signature page. These faculty members will be selected based on their expertise and the nature of your project. However, responsibility for supervising your project and overseeing the preparation of your thesis rests with your research advisor. Most students complete their honors project and thesis over a three-semester period:

- **First Semester:** Student selects research advisor, picks up an honors packet from the CALS Dean's office (2002 McCarty Hall D), organizes project, outlines topic and submits outline for the FSHN Undergraduate Committee for approval.
- **Second Semester:** Student works on project under supervision of research advisor.
- **Third Semester:** Student informs [Irina Bondoc](#) in the CALS Dean's Office of intent to submit an honors thesis and obtains an honors thesis information packet. Student prepares report, obtains research advisor's approval, and gets signatures from FSHN Undergraduate Committee members in time to meet CALS Dean's Office deadlines. Students will meet with and submit their final thesis to Interim Associate Dean Dr. Allen Wysocki for review prior to this appointment. Consult the CALS Honors web site for more information: http://www.cals.ufl.edu/current_student/honors_program.shtml.

CALS Honors Program

CALS is the only UF college to offer an upper division honors program. The intent of the program is to allow students to enrich their education through special courses and activities. To be eligible for admission into the CALS Honors Program, you must have completed at least one semester in CALS, completed 60-90 credit hours, and have an overall GPA of 3.75 or better in all undergraduate work attempted. You can apply to the program through the CALS website: http://www.cals.ufl.edu/current_students/apply.shtml. You will be notified by the CALS Honors Program Coordinator, Dr. Allen Wysocki, if you are selected to participate.

To graduate as a CALS Honors Scholar, students must complete each of the five experiences listed below and maintain an **upper division GPA** of at least a 3.75. The entire CALS Honors Program consists of 9-10 credit hours of honors-related coursework and/or research.

Required Experiences:

- ALS3923 Honors Orientation 1 credit
- ALS4921 Honors Colloquium 3 credits
- XXX4909 Honors Project 3 credits-based on your curriculum (DIE, FOS, or NUT)
- Additional Honors Course Work 2-3 credits must come from courses not previously taken
- Honors Thesis

For further details, consult the CALS Honors Program web site, http://www.cals.ufl.edu/current_student/honors_program.shtml, or contact the FSHN Department's honors advisor [Dr. Anne Kendall](#).

You must maintain a minimum GPA of 3.75 in all coursework: both lower division and upper division courses, transfer courses and UF courses, and all honors courses. If your overall GPA falls below the required 3.75, you are placed on probation with the CALS Honor Program. Successful completion of the program earns you the right to be designated as a CALS Honors Scholar; this designation will appear on your permanent transcript and you will be awarded an honors medal to wear at graduation. For more information on program requirements, consult with Interim Associate Dean Dr. Allen Wysocki (Room 2002 McCarty Hall D) or visit their website: http://www.cals.ufl.edu/current_student/honors_program.shtml. **It's important to note that you cannot graduate *magna cum laude* or *summa cum laude* without being part of the CALS Honors Program!**



Undergraduate Research

If you are working on a research project with a faculty member inside or outside of the department – whether or not you are writing an honors thesis or not – please make sure FSHN Student Services knows about it. If you plan to receive research credits for this work (HUN, DIE, or FOS4905/4909), you need to fill out a research contract (available in FSHN Student Services) in order to get registered. FSHN Student Services will not register you if the form is incomplete, *no exceptions*. The form must be submitted by the end of the drop/add period for the semester in which you want to earn credit. If you decide to add these credits after the drop/add period, there will be a late registration fee. If your research supervisor is outside of this department, you are required to have the form signed by your FSHN Faculty Advisor. All students receiving research credit from this department are required to submit a one-page summary at the end of semester. This one page summary must be submitted to your faculty advisor and not to Student Services. If you are not getting paid or receiving credits for your work in someone's lab, you need to fill out an official UF volunteer form (available in the FSHN main office, Room 359 FSHN) to make sure you're covered by UF accident insurance.

The easiest way for you to learn about research opportunities is to contact your faculty advisor. Your faculty advisor may know of opportunities within our department or outside of our department. You can also use the following link to find other research options, <http://www.honors.ufl.edu/Research.aspx>.

The Health Insurance Portability and Accountability Act of 1996 ([HIPAA](#)) changed the way that people handle medical records and privacy. Now, all persons working in an area that may put them in contact with medical records must complete a specific HIPAA training course. Student volunteers and researchers are no exception. You can train online at <http://privacy.health.ufl.edu/training/Research08/online.shtml> and then print the certificate of completion for your records.



Awards and Scholarships

Several awards and scholarships are offered through the FSHN Department. Most awards are presented at FL Section IFT's Student Recognition Night (watch for flyers!), and student winners' parents are invited to come help celebrate. Application forms are available from FSHN Student Services each January and are due back in early spring; dates vary, so check your listserv messages for details. Information concerning application procedures, selection criteria, and eligibility can also be obtained through FSHN Student Services.

CALS also offers many scholarships for which FSHN students can qualify. Application forms are available online via the CALS Scholarship website and must be submitted by the deadline date. For further details, visit the CALS Scholarship web site http://www.cals.ufl.edu/current_students/scholarships_awards.shtml.

All FSHN students are encouraged to apply for departmental and college scholarships, regardless of GPA, financial need, or leadership activities – each scholarship has different selection criteria, and you are probably eligible for something!

Additionally, IFT and ADA (as well as the Florida Dietetic Association and Florida Section IFT) offer some specific scholarships for Food Science and Dietetics students. FSHN Student Services usually has these applications available during the spring semester, but we have no input on scholarship selection or distribution through these organizations. Other scholarships are available to you if you're willing to investigate and read bulletin boards. Check the boards outside FSHN Student Services, where industry and government scholarships are regularly posted. Another good starting place is the Office for Student Financial Affairs in Criser Hall. Pick up a copy of "Gator Aid" and start looking.

In order to be named to the Dean's List for CALS, you must achieve a 3.7 GPA on a minimum of 12 credits in fall or spring semester (no S/U courses allowed). CALS will send you a letter and certificate notifying you if you make Dean's List.

In order to be recognized on the UF President's Honor Roll, students must achieve a perfect 4.0 GPA with at least 15 credit hours in fall or spring here at UF (no S/U courses allowed). Each honoree will receive the President's Honor Roll certificate.



Jobs, Internships and Volunteer Positions

Job opportunities for students can be found at [Jobs at UF](#). Click on "search positions," then go to the drop down box "job category" and click on "students." If you have questions about Work Study eligibility, contact the Student Financial Aid Office. That office can help you determine if you're eligible for particular positions listed. Additionally, you should always check bulletin boards in and around FSHN for job listings, internship notices, volunteer opportunities, and research projects. Both work and volunteer experience can increase your chance of being accepted into a graduate program, dietetic internship, professional program, or of finding a job after graduation. You should also keep in touch with your faculty advisor on a regular basis. FSHN faculty may know of work or volunteer opportunities for undergraduates students that may or may not be directly related to their major. Your faculty advisor can't help you if you don't make the effort to get to know him or her!

If you are searching for a summer job or internship, you have several other sources of information available to you. The FSHN Student Services will post opportunities on our listservs. Your assigned faculty advisor may know of internship possibilities that are specific to your major, so make an appointment to meet with them once a semester. The CRC in the Reitz Union has a wealth of resources, and students should become familiar with their services. The CRC can also help you with interview skills; resume building, and internship searches. Many Food Science students have successfully organized summer internships (paid and unpaid) on their own, by utilizing faculty resources and by maintaining connections with Florida industry (usually by joining Florida Section IFT and attending meetings). Most of these internships resulted in job offers and/or helped those students get into graduate school. An additional resource for jobs and internships is the CALS Job Database (check with the CALS Dean's Office for more information). CALS also hosts a Career EXPO each spring semester. Cathy Carr, Director of Alumni and Career Services for CALS can assist you with career planning. See <http://cals.ufl.edu/careerresources/> for more information.

Similarly, many Dietetics or preprofessional students have arranged summer internships (not to be confused with the required Dietetic Internship) in clinical settings such as hospitals, doctors' offices and nursing homes. There are several preprofessional clubs on campus that can do the same for Nutritional Sciences students (such as Pre-Med AMSA or the Preprofessional Service Organization).



FSHN Club and Other Extracurricular Activities

Being active in organizations lets you learn about your intended profession, meet future colleagues, gain leadership experience, socialize with peers, add extra-curricular activities to your resume, and more. You can usually become a member in professional organizations and clubs by participating in their activities and/or paying membership dues. Student government positions are by election or appointment.

The FSHN Club (the UF Student Chapter of IFT) provides many activities for all FSHN students, including: guest speakers, fund-raising events, community service, professional shadowing, and socials. You should definitely check them out by attending their meetings, usually held every other Tuesday or Wednesday night (subject to change) after 5:00 pm. See the Club bulletin board at the base of the FSHN building staircase for definitive meeting times and dates. For more information about the FSHN Club and its current officers, you should contact the FSHN Student Services Office. Club officers have a desk in this office, and you can always pick up a Club application even if you can't make their meetings. The FSHN Club is not active in the summer.

The Agricultural and Life Sciences College Council ([ALSCC](#)) is the umbrella organization under which all CALS clubs fall. Members are elected in both spring and fall semesters, with the majority of the executive board positions filled in the spring. Meetings are open to everyone and students are encouraged to get involved. CALS (392-1963) has more information if you're interested.

Also, check out the Student Activities Office on the 3rd floor of the Reitz Union for information on other student organizations on the UF campus.



Student Records

Your student records, both in the computer system and in paper files, are confidential, and will only be viewed by appropriate advising staff and faculty. Student records contain information such as SAT or ACT scores, college transcripts, advising notes, and permanent and local addresses, as well as course planning forms. Individual student record folders are kept secure in the FSHN Student Services, and may not be removed from that office. However, you may have access to your own records upon request, and you are welcome to add appropriate items to your folder (e.g., photographs, letters of recommendation, award certificates, etc.) if you would like them to become a part of your permanent record.



Email, ISIS and the Internet

UF requires all students to have a GatorLink email account. The FSHN department primarily communicates via departmental email and listservs, so all FSHN undergraduates are required to be on the appropriate listserv (DIE, FOS, or NUT) so that we can keep you informed of professional and career opportunities. FSHN Student Services personnel can be reached easily by e-mail (see inside front cover for addresses) and will return e-mails more quickly than phone messages or written notes. Information about getting a GatorLink account (free to UF students) is available at the UF Computing Help Desk in Room 132 of the HUB.

Also, we encourage our students to be web-literate! Get out there and surf the web – you might find out about job opportunities in your field, graduate programs in areas you never knew existed, or private organizations dedicated to nutrition, food safety, etc. Be sure to check out the [IFT](#) and [ADA](#) sites for career information.



Computers

Access to and on-going use of a computer is required for all students to complete their degree programs successfully. UF expects each new student to acquire computer hardware and software appropriate to his or her degree program. Competency in the basic use of a computer is a requirement for graduation. Class assignments may require use of a computer, academic advising and registration are often done by computer, and official university correspondence is often sent via email.

While the university offers limited access to computers through its computer labs, students will be expected to purchase or lease a computer that is capable of dial-up or network connection to the Internet, graphical access to the World Wide Web, and productivity functions such as word processing and spreadsheet calculation. Costs of meeting this requirement are included in published [financial aid](#) considerations.



Other Important Resources

You should read the online version of the [Undergraduate Catalog](#) very carefully. It describes UF rules and regulations, requirements, procedures, and resources and serves as a “contract” between you and the university. Keep the copy of the Guide of Majors that you received during Freshman Preview. This publication is a good reference for majors, minors, and certificate programs, but the Undergraduate Catalog will always take precedence. You may want to bookmark the [Undergraduate Catalog](#) for the year that you were admitted to UF (e.g. 2009-2010 for students entering in the fall of 2009), because **the degree requirements stated in that catalog will apply to you, regardless of when you graduate**. The only exception to this rule is that course substitutions are sometimes allowed by your faculty advisor (subject to review by the Undergraduate Coordinator and CALS Dean’s Office), but usually only under unusual circumstances (see FSHN Student Services for details). The catalog contains a brief description of all UF courses as well as curricula for all FSHN specializations (although occasionally course numbers will change – check with FSHN Student Services if you are unsure).

The [Schedule of Courses](#) can be viewed online. The Schedule of Courses is updated prior to Advance Registration. In addition to course schedules, it lists registration and drop/add procedures, final exam schedules, a term calendar with critical dates, a description of the Gordon Rule requirement, a description of General Education Requirements, details on AP/IB/SAT II scores and what they mean, a listing of course prefixes with titles and departments teaching the courses, a listing of building abbreviations, and a campus map. Be careful about General Education and Gordon Rule courses – if a course is not listed in the **current** schedule as counting for something specific, then it won’t count, even if it did in previous semesters!

The Divisions of Student Affairs and Academic Affairs posts [The Student Guide](#) annually. It covers many aspects of campus life, including student rights and responsibilities, not found elsewhere, and is a very useful source of information. You can pick one up in Peabody Hall, right next to Criser Hall. Other helpful student information can be obtained from UF’s Student Government on the third floor of the JWRU.

Students should be aware that counseling, rape crisis counseling, and mental health services are available **free of charge** to all UF students. The Student Health Care Center (Infirmary Bldg.) houses both the Mental Health Clinic (392-1171) and the Center for Assault-Abuse Recovery and Education, or CARE (392-1161, ext. 231). The Counseling and Wellness Center (392-1575) is located at 3190 Radio Road here on campus, and you can also obtain counseling on the 4th floor of Peabody Hall. They provide peer counseling, minority services, and substance abuse and suicide prevention programs. For more information regarding counseling or mental health services, please consult [The Student Guide](#). You may also seek help from someone in FSHN, but it’s never a bad idea to speak with a professional counselor.



Academic Honesty and UF Policies

When a student registers for courses at the University of Florida, it is assumed that she or he has read, understood, and agreed to comply with the following statement on academic honesty:
<http://www.dso.ufl.edu/studentguide/studentrights.php#studenthonorcode>.

The Food Science and Human Nutrition Department expects its students to abide by all UF policies. If you have any ethics-related questions concerning academic honesty, software copyrights, safety, drugs and alcohol, sexual harassment, discrimination, Affirmative Action or AIDS, you can seek answers with the UF Registrar, FSHN Student Services Office or your faculty advisor.

FSHN expects its students to conduct themselves in a manner appropriate for future professionals and academicians, but we also hope you will enjoy your education and have a good time with us. Get to know FSHN faculty and staff, and be aware that we are here to help you whenever you need us!



Grades, Grade Points, Grade Point Averages

On your degree audit you will see your overall UF GPA and your upper-division GPA (the latter is your GPA in all courses attempted beginning in the first semester after reaching 60 total credit hours). Grades received at other institutions are NOT averaged with grades received at the University of Florida.

UF does **not** have grade forgiveness. Course work that is repeated is counted in the computation of a student's UF GPA as many times as grades for that course are recorded, although credit hours will be awarded only once. However, when a student earns a C (2.0) or higher in a course, repeats that course and earns a C (2.0) or higher on the subsequent attempt, the new grade is neither computed into the UF GPA nor awarded additional credits. Complete information on UF grading policies can be found in the Undergraduate Catalog (<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>).

Letter grades are assigned based on the grading scale for each course. This is defined in the course syllabus. It is important to read each course syllabus carefully to make sure you understand how grades are determined. *General Education requirements and some other courses will require a grade of C or better; note that a C- grade will not be adequate.*

The University of Florida uses the following system to assign Grade Points:

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Grade Points	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	.67	0

Note: this is a new grading system that began Summer A, 2009. Prior to that term, the grading system was:

Letter Grade	A	B+	B	C+	C	D+	D	E
Grade Points	4.0	3.5	3.0	2.5	2.0	1.5	1.0	0

Your Grade Point Average (GPA) is determined by dividing the number of credit hours attempted by the number of grade points earned. Here's an example:

Course	Grade	Grade Value	X Credit Hours	= Grade Points
CHM2045	C+	2.33	3	6.99
CHM2045L	B	3.0	1	3.00
MAC1147	A-	3.67	4	14.68
EEX3312	C-	1.67	3	5.01
SPC2608	D	1.00	3	3.00
TOTAL			14	32.68
		32.68 divided by 14 equals a GPA of 2.33		



Probation, Suspension and Dismissal

If your overall UF GPA falls below a 2.00, that means you've earned "deficit points" (see next page) and that you're on probation. When you are on probation, FSHN and CALS will monitor your progress; you must remove all your deficit points within two semesters (excluding summer) in order to stay at UF. If you don't remove those deficit points, CALS can put you on suspension – meaning, you'll have to sit out one semester before CALS will consider allowing you to resume taking classes. **If you earn 15 or more total deficit points, UF will dismiss you permanently!**

Deficit points are added or removed according to the grades you earn, as follows:

- | | | | |
|----|---|----|--|
| A | removes 2 deficit points per credit hour | C | does not affect deficit points |
| A- | removes 1.67 deficit points per credit hour | C- | adds 0.33 deficit points per credit hour |
| B+ | removes 1.33 deficit points per credit hour | D+ | adds 0.67 deficit points per credit hour |
| B | removes 1 deficit point per credit hour | D | adds 1 deficit point per credit hour |
| B- | removes 0.67 deficit points per credit hour | D- | adds 1.33 deficit points per credit hour |
| C+ | removes 0.33 deficit points per credit hour | E | adds 2 deficit points per credit hour |

So if you were on probation and earned 9 credits of C and 3 credits of B, you’d remove 3 deficit points. Or if you got 6 credits of C, 3 credits of D, and 3 credits of A, you would have added 3 deficit points with the D and removed 6 with the A, so you would have removed 3 deficit points overall.

The CALS Dean’s Office will send out probation notification forms by mail and email. The forms are sent out within the first month of each semester excluding summers. If you find yourself on probation, CALS will place a registration hold on your record; the FSHN Student Services cannot remove the hold; only the CALS Dean’s office has the authority. So you must follow this two-step procedure:

1. Meet with your academic adviser and complete Section A of the Probation Contract as well as the Semester Grade Prediction and Deficit Point Removal Form. Your adviser may have other forms for you to complete and may also have placed a hold on your record. **You must have an adviser’s signature on the Probation Contract before meeting with Associate Dean Dr. Elaine Turner**
2. Make an appointment to meet with Associate Dean Dr. Elaine Turner to complete Section B of the Probation Contract and review the Semester Grade Prediction and Deficit Point Removal Form. Dr. Turner will review your academic situation with you and discuss your plans for the future. Call 392-1963 to set up an appointment.

The term “average” refers to the grade point average (GPA) for work completed at the university. Grades received at other institutions are NOT averaged with grades received at the University of Florida, although they will appear on your official UF transcript. Other agencies and honorary societies will compute averages in accordance with their own standards and policies. If you earned an incomplete (“I” or “H”) grade in a class last semester, you must complete requirements for that course by the end of the next semester or the grade will be calculated as an “E” in your GPA and add deficit points to your academic record.

A grade point deficit is defined as the number of grade points below a C average on all hours attempted at UF. If your grade point average is less than 2.0, you have a grade point deficit. For example:

Courses	Grade	Grade Value	X Credit Hours	= Grade Points
HUN2201	C-	1.67	3	5.01
APK2105C	D	1.0	4	4
ECO2023	B+	3.33	4	13.32
ENC2210	D-	.67	3	2.01
			14	24.34
24.34 divided by 14 equals a GPA of 1.73				

This GPA of 1.73 is below a 2.0, and thus this student has deficit points. To calculate the deficit points earned, you multiply the total credit hours by a 2.00 GPA, giving you the total grade points you would need in order to not have any deficit points. In this case, $14 \times 2.0 = 28$ grade points. Then take that 28 and subtract the total grade points you have earned (in this case, $28 - 24.34 = 3.66$), and that will indicate your grade point deficit.

As of Summer A 2009, when minus grades took effect, only grades higher than C (2.0) will lower a grade point deficit. See chart at top of previous page for details.

FSHN hopes to help you avoid all this hassle by helping you stay off probation in the first place. If you're struggling academically, see Janna or Nicole right away!



Minors – General Information

Completing a minor gives you the opportunity to explore an area of interest outside your major, and generally requires a minimum of 15 credit hours of work in that area (or more, as specified by the minor department). If you wish to pursue a minor, you must do two things: 1) go to 2002 McCarty Hall or 201 Criser Hall and fill out the "Application to Add or Cancel a Minor" form, and 2) make sure that the minor requirements are met through contact with the minor department. The minor form must be signed by the appropriate Departmental and/or College representatives. The semester of your graduation, UF will check to make sure that all requirements for the minor have been met. If the minor is housed in the College of Liberal Arts and Sciences, note that they are requiring students to take a minimum of 6 credits toward a minor that do not also count as degree credit in your major. If you don't meet this rule, the minor will not be conferred.

Following are some minors commonly pursued by FSHN students, though you are **not** restricted to these and may pursue any minor of interest to you. You may also get more than one minor (only one might show on the UF computer screen, but all will appear on your final transcript).



Business Minor

The 24 credit Business Administration minor is open to all non-business undergraduates. The Business Administration minor provides a general overview of the major functional areas of business. You must have an overall GPA at UF of 2.00, and you must get a "C" or better in all minor courses. All attempts at the minor courses will be averaged into the minor GPA. UF correspondence courses will not count toward the minor. All courses for the minor must be taken for a letter grade. As of Summer B 2009, the Business minor has been updated to include the following courses. If you are currently completing the Business minor please see an advisor in the Warrington College of Business Administration to see how this effects your completion of the minor. You'll need the following courses:

Courses	Title	Credit
ACG2021C	Intro to Financial Accounting	4
FIN3403	Business Finance	4
MAN3025	Principles of Management	4
MAN3023	Principles of Marketing	4
Pick two of the following:		
BUL4310	The Legal Environment of Business	4
ECO2013	Principles of Macroeconomics	4
ECO2023	Principles of Microeconomics	4
Total Credits: 24		

BUL4310, FIN3403, MAN3025 and MAR3023 must be taken at UF or via study abroad course work approved by the School of Business. Students who complete the above courses at a different institution can petition the school to take a higher level course in that discipline to satisfy requirements for the minor.



Chemistry Minor

The Chemistry minor requires prior approval. In other words, if you do not obtain specific approval from the Chemistry Department, you will not receive the minor even if you have completed all the required work. To obtain approval to pursue a minor in Chemistry, pick up an application form in the CALS Dean's Office (McCarty Hall D, Room 2002), complete the form and get it signed by CALS, and turn it in at Room 100 of the Liberal Arts & Sciences Academic Advising Center (ACC, in Farrison Hall). You do not need the signature of anyone in Chemistry as a part of this application process. The requirements for the minor are as follows, and you must get a "C" or better in each minor course. At least nine chemistry credits applied toward the minor must be completed at UF. As of fall 2010, at least 6 credits of chemistry minor courses must be taken **in addition** to any used for FSHN degree requirements. Please meet with your academic advisor to discuss options.

Courses	Title	Credit
General Chemistry:		
CHM2045/L and CHM2046/L or CHM2047/L	General Chemistry I and II with Labs, or One Semester General Chemistry and Lab	5-8
Organic Chemistry:		
CHM2210 and CHM2211/L or CHM3217 and CHM3218 and CHM2211L	Organic Chemistry I and II with Lab, or Organic Chemistry/Biochemistry I, Organic Chemistry/Biochemistry II, and Organic Lab	8-10
Analytical Chemistry:		
CHM3120/L	Analytical Chemistry with Lab	4
Choose one additional course:		
CHM3218 (if organic chemistry sequence is met with CHM2210/2211/2211L)	Organic Chemistry/Biochemistry II	4
CHM3400	Physical Chemistry	3
CHM3610	Inorganic Chemistry	3
CHM4000-level course (except CHM4905, 4910 or 4940)	Varies	3-4
Total Credits: varies		



Zoology Minor

To obtain approval to pursue a minor in Zoology, pick up an application form in the CALS Dean's Office, complete the form and get it signed by CALS, and take it to Room 100 ACC. You do not need the signature of anyone in Zoology as a part of this application process. At least 9 credit hours of the minor must be completed at the University of Florida, and ZOO 4905 Individual Studies may **not** be counted. The requirements for the minor are as follows, and you must get a "C" or better in each minor course. Please see note above regarding Liberal Arts & Sciences restrictions regarding using minor courses for FSHN major requirements.

Courses	Title	Credit
Biology courses:		
BSC2010/L	Integrated Principles of Biology I with Lab	4
BSC2011/L	Integrated Principles of Biology II with Lab	4
Pick three Zoology courses:		
PCB or ZOO prefix	Varies	3+
Total Credits: 17+		

Look out – some courses taught through Botany and Microbiology will have a ZOO or PCB prefix, but are not actually taught through Zoology and will **not** count unless you have something in writing from the Zoology Department!



Leadership Minor

UF's Leadership minor is open to all students at the university; however, admission is by application only. A cumulative GPA of 3.0 is required, which must be added before a student completes 90 credit hours. Applications are due the fourth Friday of fall and spring semesters. [Additional information and application.](#)

The interdisciplinary minor in leadership, in conjunction with the successful completion of the degree program, provides students an opportunity to develop fundamental skills and knowledge necessary to assume leadership, supervisory or management positions in private companies and nonprofit organizations. Because the minor is interdisciplinary, it will draw on the expertise of faculty and staff in colleges across campus, which may include Agricultural and Life Sciences, Business Administration, Health and Human Performance, Journalism and Communications, and Liberal Arts and Sciences.

Requirements: Students must earn a B or higher in AEC 3414, Leadership Development, to continue in the minor. An overall GPA of 3.0 in all courses taken in the minor is required for the minor to be conferred. Overall requirements are as follows:

Courses	Title	Credit
AEC3414	Leadership Development	3
Pick two of the following:		
AEC3413	Working with People: Interpersonal Leadership Skills	3
AEC4434	Communication and Leadership in Groups and Teams	3
AEC4465	Global Leadership	3
FYC4905	Special Topics in Organizational Leadership for Non Profits	3
Ethics – choose one course:		
AEB4126	Agricultural and Natural Resource Ethics	3
FYC4114	Ethical Issues in Family, Youth, and Community Sciences	3
JOU4700	Problems and Ethics of Journalism in Society	3
PHI2630	Contemporary Moral Issues	3
PHI4662	Ethical Theory I	3
PHM3640	Ethics of Communication	3
POS3263	Policy, Ethics, and Public Leadership	3
Communications – choose one course:		
AEC3030C	Effective Oral Communication	3
SPC2608	Introduction to Public Speaking	3
AEC3033C	Research and Business Writing for Ag/Life Sciences	3
ENC2210	Technical Writing	3
AEC3073	Intercultural Communication	3
COM4930	Organizational Communication	3
COM4930	Nonverbal Communication	3
GEB3213	Professional Business Writing	3
GEB3218	Professional Speaking	3
MMC4302	World Communication Systems	3
SDS4410	Interpersonal Communication Skills	3
		Total Credits: 15

Please note that this minor is very popular! If the AEC3414 course gets too full, it is therefore common for minor applications to be put on hold. In other words, there are a limited number of spots available for students interested in this minor, and once they're filled no more minor applications will be accepted. It is therefore imperative that you explore this minor early if you think it's something you'd like to pursue.



Other Minors

Offered at UF

Agricultural and Natural Resources Ethics and Policy
 Agricultural and Natural Resources Law
 Anthropology
 Biology
 Computer and Information Sciences
 Dance
 Education
 English
 Extension Education
 Food and Resource Economics
 Health Science

Management and Sales in Agribusiness
 Mass Communication Studies
 Music
 Nonprofits for Organizational Leadership
 Packaging Science
 Pathways to Teaching
 Plant Molecular and Cellular Biology
 Sociology
 Spanish
[UF Teach Education](#)
 Women's Studies

Not Offered at UF

Applied and Professional Ethics
 Exercise and Sports Sciences
 Microbiology and Cell Science
 Psychology
 Public Relations

Please note that this list is subject to change! Sometimes UF minors are added or canceled or the name of the minor is updated. For further details on any of these subject areas, or for information on other minors not listed here, look in your [UF Catalog](#). Or, see an advisor in that particular department.

Even if a minor is not offered in the area you want, you can still take additional coursework in that area to strengthen your knowledge base in preparation for graduate school, internships, or job positions. It's never a bad idea to be well rounded!



Double Majors and Dual Degrees

FSHN is very supportive of students who wish to complete two majors. In the past, we have had FSHN students doing additional majors in Microbiology, Zoology, Fine Arts, French, and Business Administration. As you can see, there are really no restrictions on subject area.

When students complete two majors within the same college that result in the same degree (e.g., BS), this called a double major. Students receive one Bachelor of Science degree with two majors; both majors will be listed on the transcript. When students complete two majors in different colleges or in the same college but result in different degrees (e.g. BS and BA), this is called a dual degree. Students receive two Bachelor's degrees; both are noted on the transcript. If you decide you want to pursue two majors, you need to consider a few things. If this causes you to graduate a year or more late, will that work for you? Will your financial aid cover you for the extra semesters? Are you willing to put in the extra time and effort?

If you decide to follow through, download and print the appropriate form from the Registrar's web site: <http://www.registrar.ufl.edu/pdf/dblcollmajor.pdf> or <http://www.registrar.ufl.edu/pdf/dualdegree.pdf>. Make sure you meet the eligibility requirements and complete the personal statement. It is best to meet with an advisor in the other major right away to make sure you can actually add the second major. Ask for curriculum information and find out if any of your FSHN courses will count as required courses or electives. Work with your FSHN advisor to develop a plan of study that will meet requirements for both majors. Obtain approval from the new major and then from FSHN. Finally take the completed form to the CALS Dean's Office for review and final approval by Associate Dean Dr. Elaine Turner.



Special Topics and Independent Study/Research

FSHN has many “TBA” courses listed in the [Schedule of Courses](#) each semester, and students usually wonder what in the heck all those weird course numbers are for. In general, they are designed to give you credit for independent research, special projects, or approved work experiences. You must consult with a faculty advisor to receive credits for any of these, and all projects require completion of a contract that outlines the project objectives, description of the work and number of credits to be received. Section numbers for these courses are **never** distributed, so the contract is required before we will register you. Contracts are available in FSHN Student Services. These courses are:

HUN4905, DIE4905 and FOS4905 – independent study/research

HUN4909, DIE4909 and FOS4909 – independent study/research for honors projects

HUN4936, DIE4934 and FOS4936 – special topics courses/studies for one or a few students

HUN4941 and FOS4941 – practical work experience in a field related to your major

If other courses are listed with a “TBA” designation, be aware that those courses may be honors courses, or they may be sections restricted to certain students only, or they might not actually be offered at all.



Overseas Study

Many students are interested in studying overseas for a semester, but are concerned about falling behind in their coursework. To this we say: what will you remember in 50 years, the fact that you took one extra semester to graduate, or the summer you spent studying in London? In other words, if you do have the opportunity to study abroad, give it some serious consideration. It will likely be an incredible experience, and it will also look great on your resume to graduate and professional schools. FSHN will work closely with you to try and find equivalent courses so that hopefully you won't graduate late anyway (this works especially well during sophomore or junior years).

If you're interested, check out this site <https://www.abroad.ufic.ufl.edu/index.cfm?FuseAction=Abroad.Home> to get some basic information. There, you can find out about available programs, financial aid and much more. Next, stop by Room 170 in the HUB (392-5323) and speak to an international programs advisor to get started.

CALS also offers opportunities for study abroad through their Global Gators program, designed specifically for students in agriculture, life sciences, forestry, ecology, and related majors. For more information visit the website at <http://www.cals.ufl.edu/globalgators/index.shtml>.

The FSHN Department hosts a study abroad program called “UF in Italy” most summer. The program takes place during summer A, and gives participants the opportunity to travel throughout Italy to learn about Italian food culture and production. Students who are selected for the trip will tour agricultural areas, fisheries, and food production plants, learning about viticulture, vegetable crops, cheese-making, commercial fishing, olive pressing, and much more. Additionally, there will be discussions and workshops designed to help American students understand the economics and policies that govern both traditional and modern Italian food production. Check your listserv messages from FSHN Student Services for updates.

There are also many opportunities for students to volunteer in other countries over spring break and other semester breaks through Florida Alternative Breaks (<http://www.leadershipandservice.ufl.edu/florida-alternative-breaks.html>), RECURSO (<http://recursouf.wordpress.com/service-trip/>), and other campus student organizations. Be sure to pay attention to e-mail messages from the FSHN Club, FSHN Department, and UF as a whole to keep up with ongoing opportunities.



Frequently Called Numbers

(all area codes are 352)

FSHN Student Services Office	392-1991, x 220	The Graduate School	392-4646
FSHN Undergraduate Coordinator	273-3472	Pre-professional Advising	392-1521
FSHN Student Club	TBD	Correspondence Study	392-1711
FSHN Administrative Main Office	391-1991, x 200	Study Abroad Studies	392-5323, x 2
College of Ag Undergrad Office	392-1963	International Student Center	392-5323, x 1
College of Ag Honors Program	846-1963	Language Learning Center	392-2112
UF General Directory Assistance	392-3261	Reitz Union Directory Assistance	392-1649
UF Student Records/Registration	392-1374	Reitz Union Student Activities Ctr.	392-1671
UF Registrar	392-1361	Student Government Offices	392-1665
UF Admissions Office	392-1365	Marston Science Library Hours	392-2758
CLASR information	392-0371, x 200	Library West	273-2851
UPD General Information	392-5447	CIRCA (computer lab hours/info)	392-2007
UPD Property Recovery	392-FIND	Institute of Black Culture	392-0895
Student Financial Aid Office	392-1275	Inst of Hispanic/Latino Cultures	392-1261
UF Financial Services Office	392-0181	Baby Gator Child Care Center	392-2330
ID Card Information	392-UFID	O'Connell Center	392-5500
UF Housing Office	392-2161	Student Recreation & Fitness Ctr.	846-1081
Student Health Care Center	392-1161	Recreational Sports	392-0581
Career Resource Center	392-1601	Lake Wauburg Recreation Facility	466-4112
UF Bookstores	392-0194	Student Nighttime Auxiliary Patrol	392-SNAP
Transportation and Parking Services	392-2241	Gator Dining Services	392-2491
Parking Appeals	392-6655	Ctr for Performing Arts – Tickets	392-2787
Dean of Students Office	392-1261	Florida Museum of Natural History	846-2000
Medical Withdrawals	392-1261	Harn Museum of Art	392-9826
Disability Resources	392-1261	University Box Office, JWRU	392-1653
Affirmative Action Office	392-6004	Leisure Courses	392-3825
Counseling Center	392-1575	Vending Machine Office	392-7304
Teaching Center - Free Tutoring	392-2010	Student Mental Health Services	392-1171



Faculty Advisor Contact Numbers

¹AFPL = Aquatic Food Products Laboratory, located next door to FSHN

²AFPP = Aquatic Foods Pilot Plant, located next door to FSHN

Food Science:

Dr. Keith Schneider	216 AFPL ¹	392-1991, x 309	kieths29@ufl.edu
Dr. Charles Sims	130 AFPP ²	392-1991, x 211	csims@ufl.edu
Dr. Anita Wright	214 AFPL ¹	392-1991, x 311	acw@ufl.edu
Dr. Wade Yang	126A AFPP ²	392-1991, x 507	wade.yang@ufl.edu

Dietetics:

Dr. Gail Kauwell	265B FSHN	392-1991, x 227	gkauwell@ufl.edu
Dr. Anne Kendall	G025 McCarty D	273-3472	kendall@ufl.edu
Dr. Pam McMahan	G025 McCarty D	273-3471	psm@ufl.edu

Nutritional Sciences:

Dr. Lynn Bailey	403 FSHN	392-1991, x 213	folate@ufl.edu
Dr. Peggy Borum	409 FSHN	392-1991, x 214	prborum@ufl.edu
Dr. Jaime Collins	429A FSHN	392-1991, x 215	jfcollins@ufl.edu
Dr. Wendy Dahl	207 FSHN	392-1991, x 224	wdahl@ufl.edu
Dr. Bobbi Henken	309 FSHN	392-1991, x 205	henken@ufl.edu
Dr. Mitch Knutson	303 FSHN	392-1991, x 204	mknutson@ufl.edu
Dr. Anne Mathews	227A FSHN	392-1991, x 286	anne.mathews@ufl.edu
Dr. Sue Percival	449 FSHN	392-1991, x 219	percival@ufl.edu
Dr. Harry Sitren	467 FSHN	392-1991, x. 216	sitren@ufl.edu

INTERIM DEPARTMENT CHAIR

Charles A. Sims, Professor: PhD in Food Science, University of Arkansas

Dr. Sims' recent research has focused on the quality characteristics of fruits and vegetables, including processed products and juices. The main area of emphasis has been on factors that influence the sensory characteristics and consumer acceptability of these products. This research involves a lot of joint research projects with other faculty in IFAS and with private food companies and growers. Examples of recent research projects include: identifying the major flavor components of Florida strawberries and how these compounds affect consumer acceptability and quality, and how heat affects the flavor compounds of strawberry products; studies to determine the quality and stability of fresh-cut cantaloupe and mango; studies to identify the major flavor components that develop during the roasting of peanuts, especially high oleic acid varieties; studies to determine the flavor stability and changes of high-oleic acid peanuts; studies to characterize the phenolic compounds in muscadine wines and juices, and the ellagic acid sediment that forms in these products; studies on the sensory characteristics of Florida tomatoes and factors that impact the flavor and quality; studies with private food companies and commercial growers to identify the flavor characteristics and consumer acceptability of numerous foods.

FOOD SCIENCE FACULTY

Douglas L. Archer, Professor, IFAS Associate Dean for Research: PhD in Microbiology, University of Maryland
Government regulations related to food safety and food microbiology; genetic consequences of stress on bacteria; gastrointestinal immunity and chronic sequelae to acute illness.

George Baker, Assistant Scientist: PhD in Food Science, University of Florida

Developed methods and conducted contract problem solving/forensic research projects for numerous Fortune 500 and other internationally recognized food processors using capillary gas chromatography, mass spectrometry, FTIR, trained and consumer sensory analysis, and a variety of extraction techniques. Determined sources of potential chemical contamination and identified possible mechanisms of non-microbial discoloration in meat products in a high throughput food processing establishment. Directed laboratory management to provide more efficient work flow to increase revenue and profitability. Developed personnel strategy/laboratory schedules for growing food chemistry division resulting in decreased turnaround time. Identified and corrected sources of "method drift" in accredited analysis of vitamins, preservatives, fatty acids, cholesterol, pesticide & antibiotic residues, and corresponding extraction procedures. Developed methods for *trans*-fatty acid analysis and provided hands-on support of gas chromatograph maintenance, troubleshooting, and method development.

Michelle Danyluk, Assistant Professor: PhD in Food Science, University of California – Davis

Research focuses on microbial food safety and quality, emphasizing the microbiology of juices, fresh fruits, vegetables and tree nuts; development and validation of standard microbiological methods to evaluate behavior of foodborne pathogens under different storage and processing conditions; microbial risk assessments and risk analysis. Extension Specialist for citrus; work with processors and packers to enhance quality, safety and value of citrus products.

Renee M. Goodrich-Schneider, Assistant Professor; PhD in Food Science and Human Nutrition, University of Florida
Research interests include food safety in processing and distribution systems, and the effect of processing on microbial, chemical and nutritional qualities of foods. Special areas include fruit and vegetable processing, as well as beverage and juice technology. Currently funded projects include risk assessment of liquid food tanker truck safety, as well as validation of processes for the ensuring adequate sanitation and defense/security in tanker distribution. Additional funded work included assessment of spore-forming bacterial in tropical fruit juices and purees, mitigation processes to reduce or eliminate these microorganisms, and the development of processing techniques that delivery superior quality and safety.

Jesse F. Gregory, III, Professor: PhD in Food Science, Michigan State University

The focus of our research involves B vitamins and their function in human nutrition. Our major research area is one-carbon metabolism, which constitutes the biochemical reactions involved in methylation reactions (of homocysteine, DNA, etc.) and in production of nucleotides for DNA and RNA synthesis. We are interested in determining effects on these processes of dietary and genetic variables, including metabolic consequences of: marginal intakes of certain B vitamins, factors such as high protein intake that can stress these reactions, and genetic variables in the human population. This research includes analysis of metabolite profiles and measurement of in vivo reaction rates using stable isotope labeling procedures in human subjects and various model systems. Our other research area involves the nutritional quality of plant-derived foods and potential for nutritional enhancement through biofortification. In collaborative studies, we are working to better understand the biochemical processes by which plants synthesize folate. Biofortification is the enhancement of nutritional value of a crop by increasing the production/accumulation of a nutrient in plants, an alternative to fortification/supplementation in parts of the world where that is not available or practical. The knowledge gained is being applied to increase folate production in experimental types of tomatoes and will be applied to other commodities of international importance.

Liwei Gu, Assistant Professor: PhD in Food Science, Jiangnan University in China

Chemistry and antioxidant capacities of phytochemicals in foods. Phytochemicals are plant-derived chemical compounds. "Phytonutrients" refer to phytochemicals or compounds that come from edible plants, such as flavonoids from fruits and vegetables. P Elevated level of reactive oxygen species in human cause oxidative stress and subsequently increase the risk for cancer and cardiovascular diseases. Phytochemicals function as free radical scavenger and improve the antioxidant capacity *in vivo*. Research will explore phytochemicals in fruits, berries, vegetables, and tree nuts and test their efficacy in quenching reactive oxygen species. Food storage and processing can alter phytochemical contents and composition thus impacts the nutritional values of many foods. Research will also explore new food processing techniques that can effectively preserve phytonutrients. *Phytochemical bioavailability and efficacy in preventing chronic diseases.* Once entering the intestine, phytonutrients can be degraded or transformed into different structures by intestinal bacteria. The absorbed phytochemicals undergo further metabolism in the human body. Research aims to understand absorption and metabolism of phytochemicals and identify factors that can affect bioavailability. Hytochemicals have a potential role in affecting the fat/carbohydrate metabolism and energy balance. Research will explore the efficacy and mechanism of phytonutrients in preventing metabolic syndrome and diabetics.

Maurice R. Marshall, Jr., Professor: PhD in Food Science, Ohio State University

Our research group focus is on the chemical and biochemical reactions that influence the quality and stability of foods with emphasis primarily on seafood, and fruits and vegetables. Students at the undergraduate, masters, doctoral and postdoctoral levels are working in five specific areas, and work collaboratively with food science faculty in engineering, chemistry and extension, and faculty in microbiology and cell science and entomology.

W. Steven Otwell, Professor: PhD in Food Science, North Carolina State University

Applied research and extension activities pertinent to assuring quality, safety, development in the Florida seafood industry and throughout the Southeast; implementation of HACCP programs; use of food additives and aqua cultured products.

José I. Reyes, Assistant Professor: PhD in Engineering Science, Washington State University

Conducts research in the area of citrus processing. The main goal of this research is to develop technologies for the improvement of safety, quality, and efficiency to provide Florida processors with a worldwide competitive advantage. An example of a current project is the enzymatic deoxygenation of pasteurized fruit juice for extended shelf life. Other areas of research are instrumentation and automation of food processes with emphasis in the development of electrochemical enzyme biosensors for food quality, and rapid enzyme methods for food safety and quality assurance. Current research has focused on the development of biosensors for the detection of off-flavors at the ppb level by immobilizing enzymes in electrochemically generated nanofilms.

Russell L. Rouseff, Professor: PhD in Analytical Chemistry, University of Georgia

Biochemistry of carotenoid formation and chlorophyll degradation; identification of color compounds in citrus fruit; improvement of citrus peel and juice color; flavor characterization of fruit products; development of computerized models for assessing juice flavor.

Keith R. Schneider, Assistant Professor: PhD Food Science and Human Nutrition, University of Florida

Research interests include a focus in the area of food safety, particularly with respect to produce, juice and beverage safety. A major effort has been expended in the area of risk assessment and mitigation of foodborne pathogens associated with fresh produce. Processing technologies, including chemical and microbiological characterization of processing parameters, and alternative technologies for the reduction and/or elimination of microbial contamination also comprise a portion of the research assignment. These programs are extramurally funded. This also involves development of an active graduate student-training program, primarily within the Food Science and Human Nutrition Department, and service to the University and the food industry as needed.

Anita C. Wright, Assistant Professor: PhD in Molecular Microbiology and Immunology, University of Maryland, Baltimore

Her research interests focus on pathogens related to the seafood industry, particularly *Vibrio* species associated with shellfish. She is a member of an advisory board for the F.D.A. Interstate Shellfish Sanitation Commission and has served on U.S.D.A. Food Safety review panels. Funded research investigates the genetics of bacterial polysaccharide capsules. Her laboratory has also received multiple Sea Grant awards, which have resulted in the development of molecular probes and typing systems for detection and characterization of bacteria and protozoa in seafood and the environment. She is currently involved in the establishment of the first jointly funded, U.S.D.A.-Oyster Industry Laboratory in Apalachicola, FL, specifically designated as a research facility for improving and promoting safety and consumer confidence with the Florida Seafood Industry.

Wei “Wade” Yang, Assistant Professor: PhD, University of Saskatchewan, Canada.

Food processing/engineering, with emphasis on novel technology development for fruit, vegetable and seafood processing, safety and quality improvement; food processing operation modeling, simulation and optimization.

DIETETICS AND NUTRITIONAL SCIENCES FACULTY

Lynn B. Bailey, Professor: PhD in Nutrition, Purdue University

Dr. Bailey’s research program focuses on folate, a nutrient essential for one carbon metabolism including DNA synthesis and methylation. Folate’s link to birth defect prevention and chronic disease prevention spans the lifespan from developing embryo to the aged providing the impetus for many of Dr. Bailey’s research investigations. Human metabolic studies have generated data that have been instrumental in establishing new dietary folate intake recommendations for individuals throughout the lifecycle, including pregnant women. Studies designed to determine the role of folate in preventing specific birth defects have been conducted in women who have had infants with neural tube defects. Dr. Bailey’s research emphasis has expanded to include vitamin B12 which is linked metabolically to folate and is essential for normal fetal growth and neurological function. Nutrient-gene interactions affecting folate and vitamin B12-related genes is a current focus of Dr. Bailey’s research. Genetic polymorphisms which are common mutations affecting folate and vitamin B12 metabolism have been linked to risk factors for birth defects and chronic disease in her studies. Reports that increases in folate and/or vitamin B12 intake may ameliorate metabolic abnormalities associated with specific polymorphisms have been substantiated by research findings from her controlled metabolic and population assessment studies. Collaborative research with investigators at CDC and in China involves the evaluation of DNA methylation and folate status changes associated with folic acid supplementation in large-scale population intervention studies. The observed influence of genotype on DNA methylation and folate status response to folic acid intake provides a rationale for future investigations by Dr. Bailey and collaborators.

Peggy R. Borum, Professor: PhD in Biochemistry, University of Tennessee

Our research program focuses on populations with special nutrient needs with an emphasis on carnitine. For the past 30 years, our laboratory has conducted basic and clinical research to understand the biosynthesis, transport and function of carnitine during different stages of the life cycle/pathological conditions. Graduate students have the opportunity to use liquid chromatography/mass spectrometry acylcarnitine profiling to better characterize the carnitinome under a variety of physiological conditions. Our Piglet Neonatal Intensive Care Unit that simulates a Neonatal Intensive Care Unit is used to study carnitine in neonatal piglets. Currently our research group attends the UF Pediatric Epilepsy Clinic for patients receiving ketogenic therapy for seizures and provides both metabolic assessments of the patients and educational material for the families. We are addressing the mechanism of action of the ketogenic therapy for seizures both through clinical and experimental animal research. Each week, our group also attends the UF Pediatric Immunology Clinic for patients with HIV disease. We provide the clinic staff with metabolic assessments including body composition and provide the patients with nutrition education materials. Students have the opportunity to conduct transitional science research using a systems biology approach. We are addressing the role of carnitine in ketogenic therapy and in pediatric HIV metabolic dysfunction.

James F. Collins, Assistant Professor: PhD in Molecular Physiology, Vanderbilt University

My research program is founded in observations made by novel DNA microarray studies performed with samples isolated from the intestines of control and iron-deficient rats at different stages of post-natal development. This led to the discovery that absorption of other metals is perturbed in the iron-deficient state, including increased intestinal copper transport. Subsequent studies found that the Menkes copper ATPase (ATP7A; a copper transport protein) is strongly induced by iron-deprivation and that the protein is present on both domains of intestinal epithelial cells. Other studies are underway with human duodenal biopsy samples, in collaboration with the Univ. of Washington in Seattle. The overall objective of these studies is to identify novel genes involved in intestinal metal ion absorption in humans, by utilizing gene chip technology and other experimental methodologies. These studies are funded by a research grant from the National Institutes of Health.

Robert J. Cousins, Eminent Scholar: PhD in Nutritional Biochemistry, University of Connecticut

My laboratory’s research emphasis involves molecular and cell biology and genomics of zinc absorption, metabolism, and function. The role of zinc binding proteins in zinc metabolism and factors controlling their synthesis and degradation are extensively studied. Projects are aimed at the subcellular and molecular level, but are also approached with intact animal models, including transgenic overexpressing and knockout mice, and with experiments using human subjects. The hormonal, cytokine, and nutritional regulation of the zinc trafficking protein, metallothionein; the zinc finger protein, cysteine-rich intestinal protein; and the two families of zinc transporters (ZnT and Zip) are studied at the molecular, cellular, and integrative levels. Zinc responsive genes are being identified using genomic approaches, particularly cDNA array analysis of zinc deficient and zinc replete cells, animals, and humans, and are related to physiological effects of deficiency or supplementation and for correlations to specific diseases of the gastrointestinal tract, liver, pancreas, and immune system. Attention is also given to assessment of zinc nutritional status using newly developing methodologies such as quantitative PCR to monitor expression of individual human genes we identified as zinc responsive. Over 70 postdoctoral fellows/graduate students have received research experience/degrees under my direction. <http://nutritionalsciences.centers.ufl.edu/>.

Wendy Dahl, Assistant Professor: PhD in Nutrition, University of Saskatchewan

In recent years, her research has focused on the development and sensory evaluation of foods fortified with isolated fiber sources, the efficacy and effectiveness of functional fiber fortification, and prebiotic fiber and probiotic therapy in GI disease. In addition, Dr. Dahl has collaborated on a number of research projects related to malnutrition in institutionalized elderly. Examples of recent research projects include: prebiotic effects of chickpeas in healthy human subjects; the effect of probiotics on the prevention of diarrhea, quality of life and symptoms in adults receiving antibiotic therapy; micronutrient-fortified pureed foods on nutrient intakes and serum vitamin levels in long-term care residents with dysphagia; inulin supplementation on relapse rates and disease activity index scores in patients with pouchitis; pea hull fibre fortification of cereal-based foods and inulin supplementation on pediatric constipation and quality of life.

Anne C. Kendall, Senior Lecturer, Undergraduate Coordinator: PhD Nutritional Sciences, Cornell University
Dietetics education; nutrition screening; evaluating outcomes of nutrition services.

Gail P. A. Kauwell, Associate Professor, Director of Combined Master/Dietetic Internship Program: PhD Food Science and Human Nutrition, University of Florida

Dr. Kauwell's research program focuses on folate and vitamin B12 metabolism and requirements in humans, with a special interest in learning more about the association between nutrient-gene interactions and health maintenance/chronic disease risk. Controlled feeding studies previously conducted by Dr. Kauwell and her colleagues suggest that folate requirements are higher in individuals with two altered alleles of the gene that encodes a key enzyme in folate metabolism. Dr. Kauwell and her colleagues also observed that a moderately low folate intake was associated with a reduction in DNA methylation. A reduction in DNA methylation can result in abnormal gene expression and may increase birth defect and cancer risk. Learning more about nutrient-gene interactions and epigenetic modifications such as these may eventually help us better define nutrient needs based on the genetic/epigenetic uniqueness of an individual. Recently, Dr. Kauwell served as a co-investigator with Dr. Bailey on a research project investigating the relationship between the level of vitamin B12 intake and vitamin B12 status in adults who are beef-eaters compared to those who restrict or exclude beef from their diets (e.g., lacto-ovo- and lacto-vegetarians, vegans). The incidence of impaired vitamin B12 status was surprisingly high in this otherwise healthy population. Interestingly, impaired status was not limited to vegetarians suggesting that dietary intake alone may not be sufficient to meet the needs of non-supplement using adults. Several other collaborative studies examining the relationship between certain genetic polymorphisms and vitamin B12 status, metabolism and requirements, and the potential role of the vitamin B12 transport protein (holo-transcobalamin) as a indicator of vitamin B12 absorption have been completed or are nearing completion. As an extension of her interest in folate and its role in health promotion/disease risk reduction, Dr. Kauwell also has developed educational programs and media designed to educate and motivate consumers to adopt nutrition behaviors associated with favorable health outcomes.

Mitchell D. Knutson, Assistant Professor: PhD in Nutrition, University of California at Berkeley

Our research focuses on the molecular and cell biology of iron metabolism, with an emphasis on iron metabolism in the macrophage. Disturbances of iron metabolism are among the most prevalent disorders affecting humans. In the US, approximately 1 in 200 individuals are at genetic risk for developing hemochromatosis, an iron-overload disease, whereas the anemia of chronic disease is the most common form of anemia in hospitalized patients. Both of these disorders are characterized by alterations in macrophage iron metabolism. Macrophages play a central role in iron metabolism by ingesting senescent red blood cells and recycling their iron. Macrophage iron recycling is the largest iron-transport pathway in the body; each day macrophages recycle ~24 mg of iron (i.e., about 20 times more than we need to absorb from our daily diet).

Bobbi J. Langkamp-Henken, Associate Professor: PhD in Physiology, University of Tennessee

Recent studies from our laboratory demonstrate that a nutritional supplement with elevated levels of antioxidants (vitamins E, C, and β -carotene), selenium, zinc, fructo-oligosaccharides (FOS), and structured lipids can reduce cold and flu symptoms and improve responses to the influenza vaccine in older adults. Unfortunately, the design of these studies does not allow one to identify which nutrient or nutrients are responsible for the immune benefit. On-going studies in our laboratory examine the individual effect of these nutrients on mucosal immunity.

Anne E. Mathews, Research Assistant Scientist: PhD in Health and Physical Activity. University of Pittsburgh (RD, LDN)

Research interests include the prevention and treatment of overweight, obesity, and type 2 diabetes through behavioral and lifestyle approaches. She holds degrees in both nutrition and exercise physiology, and thus approaches treatment of such disease processes from nutritional, behavioral and metabolic perspectives. This includes determining the most appropriate interventions for increasing the long term adoption of increased physical activity and reduced caloric intake, as well as determining which approaches have the most positive physiologic impact towards reaching these goals.

Pamela S. McMahon, Director of Didactic Program in Dietetics, Lecturer: PhD in Food Systems Administration, University of Maryland
Food systems management; dietetic education.

Susan S. Percival, Professor: PhD in Biological Sciences, University of Texas, Austin
Our research program focuses on enhancing modulation of immunity by dietary components with a emphasis on modifying specific immune cells that prevent cancer from progressing to tumor. Cells that have tumor killing ability, such as natural killer cells and gamma delta T cells are of particular interest. We investigate individual compounds, such as resveratrol, ellagic acid and quercetin; foods such as passionfruit, mango, guava and muscadine grape; and botanicals or mixtures of other compounds that are found in dietary supplements. A variety of models are used to answer questions about efficacy in human subjects, physiological mechanisms in the mouse model and cellular signal transduction mechanisms in cell culture models.

Gail C. Rampersaud, Assistant in Nutritional Sciences: MS Food Science and Human Nutrition, University of Florida
Provide support to state agencies focusing on research and education issues related to nutrients in citrus; develop educational programs concerning the health benefits of folic acid, including neural tube defect risk reduction.

Harry S. Sitren, Professor, Graduate Coordinator: PhD in Nutrition, Rutgers University
A focus area has been in examining the metabolic response and adaptation of the body to enteral and total parenteral (IV) nutrition. Especially of interest are the gastrointestinal tract, liver, and pancreas. Another area is protein and amino acid metabolism as affected by route of feeding and interactions with energy components of the diet.

R. Elaine Turner, CALS Associate Dean, Associate Professor, Associate Dean: PhD in Nutrition, Purdue University
As a member of the FSHN faculty, Dr. Turner taught undergraduate courses on introductory and life cycle nutrition and a graduate course on dietary supplements. Her Extension responsibilities included providing online nutrition education to a major dietary supplement retailer and supporting state-wide nutrition and health programming in the areas of nutrition labeling and dietary supplement regulations, nutritional implications of functional foods, and nutrition guidelines for the healthy life span. Her research interests have focused on two primary areas: 1) enhancing critical thinking skills using technology and traditional classroom methods and 2) assessment of dietary intake of selected population groups. In addition, she is interested in methodologies to promote effective teaching and learning.



FSHN Undergraduate Courses

Dietetics Courses

DIE3310- Community Nutrition (2)
 DIE4125- Food Systems Management (3)
 DIE4125L- Food Systems Management Lab (2)
 DIE4245- Medical Nutrition Therapy Applications 1(3)
 DIE4246- Medical Nutrition Therapy Applications 2 (3)
 DIE4436- Nutrition Counseling and Communication (2)
 DIE4505- Dietetics Seminar (1)
 DIE4905- Problems in Dietetics (var)
 DIE4909- Honors Project (var)
 DIE4934- Topics in Dietetics (var)
 FOS4310L- Experimental Foods Laboratory (1)

**Note that these courses
 are restricted to
 Dietetics majors only!**



Food Science Courses

FOS2001- Man's Food (3)
 FOS3042- Introductory Food Science (3)
 FOS4202- Food Safety and Sanitation (2)
 FOS4222- Food Microbiology (3)
 FOS4222L- Food Microbiology Lab (2)
 FOS4311- Food Chemistry (3)
 FOS4311L- Food Chemistry Lab (1)
 FOS4321C- Food Analysis (4)
 FOS4427C- Principles of Food Processing (4)
 FOS4435C- Government Regulations and the Food Industry (2)
 FOS4522C- Seafood Technology (3)
 FOS4722C- Quality Control in Food Systems (3)
 FOS4731- Government Regulations and the Food Industry (2)
 FOS4905- Special Problems in Food Science (var)
 FOS4909- Honors Project (var)
 FOS4936- Topics in Food Science (var)
 FOS4936- HACCP Systems (2)
 FOS4936- Sensory Evaluation of Food (3)
 FOS4941- Full-Time Practical Work Experience in Food Science (var)

Nutritional Sciences Courses

BCH3025- Fundamentals of Biochemistry (4)
 HUN2201- Fundamentals of Human Nutrition (3)
 HUN3403- Nutrition through the Life Cycle (2)
 HUN4221- Nutrition and Metabolism (3)
 HUN4445- Nutrition and Disease I (2)
 HUN4446- Nutrition and Disease II (3)
 HUN4813C- Laboratory Techniques in Molecular Nutrition (3)
 HUN4905- Special Problems in Human Nutrition (var)
 HUN4910- Honors Project (var)
 HUN4936- Topics in Human Nutrition (var)
 HUN4941- Full-Time Practical Work Experience in Human Nutrition (var)

Advance Registration Worksheet
Please bring form to advising session

Name: _____ **UFID#:** _____

Phone: _____ **Email:** _____

Anticipated graduation date: _____

FSHN Major: **DIE** **FOS** **NUT (DENT, MED, OPT, PA, PHARM)**

Minor(s) If Applicable: _____

<http://www.registrar.ufl.edu/catalog/programs/minors/>

Checklist for students:

1) Have I looked at my Degree Audit? www.isis.ufl.edu Yes _____ No _____

2) Who is my Faculty Advisor? (check the bottom of your audit) _____

3) Faculty Advisor email: _____

4) Have I completed my General Education/Gordon Rule requirements? Yes _____ No _____

<http://www.registrar.ufl.edu/catalog/policies/advisinggened.html>

If not, how many do I have left? List them below:

Composition: _____

Humanities: _____

Social & Behavioral Sciences: _____

Math: _____

Physical & Biological Sciences: _____

International: _____

Diversity: _____

Gordon Rule Writing: _____

Gordon Rule Math: _____

Questions for my Academic Advisor:

1) _____

2) _____

3) _____

4) _____

Registration Planner (Summer, Fall and Spring)

Schedule of Courses: <http://www.registrar.ufl.edu/soc/>

<i>Course Number</i>	<i>Credit hours</i>	<i>Course Number</i>	<i>Credit hours</i>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

<i>Alternate Course Options</i>	<i>Alternate Course Options</i>
_____	_____
_____	_____

Black times are Fall and Spring

Orange times are Summer A/C and B

	MON	TUES	WED	THUR	FRI
1 7:25-8:15 am 8:00-9:15 am					
2 8:30-9:20 am 9:30-10:45 am					
3 9:35-10:25 am 11:00 am-12:15 pm					
4 10:40-11:30 am 12:30-1:45 pm					
5 11:45 am-12:35 pm 2:00-3:15 pm					
6 12:50-1:40 pm 3:30-4:45 pm					
7 1:55-2:45 pm 5:00-6:15 pm					
8 3:00-3:50 pm					
9 4:05-4:55 pm					
10 5:10-6:00 pm					
11 6:15-7:05 pm					
E1 7:20-8:10 pm 7:00-8:15 pm					
E2 8:20-9:10 pm 8:30-9:45 pm					
E3 9:20-10:10 pm					
WEB/TBA					

Plan Your Life! Course Scheduling Worksheet

Fall, _____

Spring, _____

Summer, _____

Fall, _____

Spring, _____

Summer, _____

Fall, _____

Spring, _____

Summer, _____

Fall, _____

Spring, _____

Summer, _____

Electives: _____

Notes

 **FSHN Comment Form**

Please take the time to share with us your feelings about, comments regarding, and suggestions for improving our handbook and our services in general.

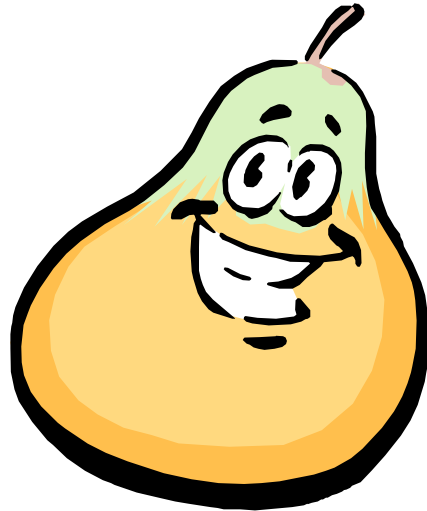
What is the most useful part of this handbook?

What is the least useful part of this handbook?

What would you like to see changed in this handbook?

What questions do you have that were not answered by reading this handbook?

Who is your favorite Jonas brother?



Disclaimer

Every effort has been made to assure the accuracy of information in this handbook. Should a discrepancy occur, the current University of Florida Undergraduate Catalog takes precedence (unless you are told otherwise **in print** by CALS or FSHN). It is the responsibility of every student to be familiar with the Catalog and the requirements stated therein.

FSHN Faculty Advisors and Student Services Personnel work very hard to keep up with UF policy and be accurate sources of information. However, despite genetic engineering they are still only human. It is ultimately **each student's responsibility** to read the UF Catalog and each semester's Schedule of Courses thoroughly for deadline dates, policies, and procedures.