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Welcome

The College of Health Sciences Mission
The mission of the University of Kentucky College of Health Sciences is to help the people of the Commonwealth of Kentucky and beyond to gain and retain the highest level of health through creative leadership and productivity in (healthcare-related) education, research, and service. As part of its 2009-2014 Strategic Plan, the CHS addressed its mission by proposing Objectives to: 1) “increase the number of quality undergraduate students to address the critical need for health professionals…” and 2) “ensure that graduates are prepared to succeed in professional and community settings.” To meet its mission and consistent with these objectives, the CHS proposed the Human Health Sciences baccalaureate program.

Human Health Sciences

Human Health Sciences (HHS) is a new unique undergraduate interprofessional healthcare degree program offered by the University of Kentucky, College of Health Sciences. Graduates from the HHS program will leave with a comprehensive knowledge of health practices and a sound background in the basic sciences for a successful career in healthcare. The curriculum has been designed to challenge you and prepare you for sound academic, research and applied skills to help make your future years productive and successful. The information in this handbook is intended to serve as a guide for your matriculation through our program. Students should familiarize themselves with the information provided herein.

Contact Information:

Interim Program Director
Dr. Geza Bruckner
Phone: (859) 218-0859 [e-mail: gbruckn@email.uky.edu]

Academic Advisor
Wayne Centers
Phone: (859) 218-0864 [e-mail: wayne.centers@uky.edu]

Staff Support Associate
Kristen Burg
Phone: (859)218-0856 [e-mail: kristen.burg@uky.edu]
HHS PROGRAM INFORMATION AND POLICIES

HHS Program Overview
The Human Health Sciences (HHS) baccalaureate program prepares undergraduate students for future healthcare careers in a dynamic, interprofessional healthcare environment. The HHS program is intended to fill a niche for students who aspire to careers in healthcare. It prepares graduates to enter advance degree programs in dentistry, pharmacy, physician assistants and physical therapy as well as pursue healthcare careers in mid-level management or supervision across healthcare environments, medical or pharmaceutical sales, community health advocacy. Graduates of this program will have a strong foundation in the basic sciences and develop competencies in healthcare skills and knowledge, thereby maximizing professional career opportunities. This program is not intended to replace traditional pathways leading to healthcare careers; instead, it is intended to offer a unique alternative embracing interdisciplinary education with a broad exposure to health care practices, policies and management for those seeking careers in healthcare and the health professions.

Students graduating from this program would also be competitive for other graduate disciplines. As envisioned, the curricular activities will develop in students a more holistic approach to patient centered care by working, studying and experiencing healthcare in a team approach. The program seeks to instill in students an appreciation for all healthcare disciplines, independent of their own professional career aspirations and a willingness to assume responsible roles as healthcare advocates. Matriculation through the program will ensure a sound foundation in the basic sciences and provide healthcare skills and knowledge for future professional education that seeks to expand and fully develop these competencies. By having students working in teams and mentored by faculty and staff, the program will provide an educational experience for the students that will nurture and maximize academic performance and ensure personal fulfillment.
Program Curriculum

The following curricular requirements are presented as a guide to your matriculation through the program, but depending on your previous coursework, there may be changes and alternatives suggested by your HHS advisor.

Courses Required for the Human Health Sciences Degree

<table>
<thead>
<tr>
<th>UK CORE PROGRAM REQUIREMENTS</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Intellectual Inquiry in the Arts &amp; Creativity*</td>
<td>3</td>
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<tr>
<td>Intellectual Inquiry in the Humanities*</td>
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<tr>
<td>Intellectual Inquiry in the Social Sciences – PSY 100 Intro to Psychology**</td>
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<tr>
<td>Intellectual Inquiry in the Natural, Physical &amp; Mathematical Sciences – CHE 105 &amp; 111 General Chem I &amp; Lab**</td>
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<tr>
<td>Composition &amp; Communication I*</td>
<td>3</td>
</tr>
<tr>
<td>Composition &amp; Communication II*</td>
<td>3</td>
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<tr>
<td>Quantitative Foundations – MA 137 Calculus I with Life Science Applications**</td>
<td>4</td>
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<tr>
<td>Statistical Inferential Reasoning *</td>
<td>3</td>
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<tr>
<td>US Citizenship*</td>
<td>3</td>
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<tr>
<td>Global Dynamics*</td>
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*Courses in each area to be selected in consultation with HHS advisor

**Required courses within the UK Core

<table>
<thead>
<tr>
<th>CORE REQUIREMENTS FOR ALL PRE-PROFESSIONAL TRACKS</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO 148 Introductory Biology</td>
<td>3</td>
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<tr>
<td>BIO 152 Principles of Biology II &amp;</td>
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<tr>
<td>BIO 155 Lab</td>
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<tr>
<td>CHE 107 General Chemistry II &amp;</td>
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<tr>
<td>CHE 113 Lab</td>
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<tr>
<td>CLA 131 Medical Terminology</td>
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<tr>
<td>HHS 241 Health &amp; Medical Care Delivery Systems</td>
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<tr>
<td>HHS 350 Health Policy &amp; Politics</td>
<td>3</td>
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<tr>
<td>HHS 351 Health Services Administration</td>
<td>3</td>
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<tr>
<td>HHS 353 Ethics in Healthcare</td>
<td>2</td>
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<td>HHS 356 Seminar in Interprofessional Healthcare</td>
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<tr>
<td>HHS 361 Healthcare Quality &amp; Patient Safety</td>
<td>3</td>
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<tr>
<td>HHS 362 Interdisciplinary Health Advocacy</td>
<td>2</td>
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<tr>
<td>HHS 405 Epidemiology &amp; Biostatistics</td>
<td>3</td>
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<tr>
<td>HHS 443 Health Information Management</td>
<td>2</td>
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<td>HHS 453 Cultural Competence in Healthcare</td>
<td>3</td>
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<td>HHS 454 Research in Human Health Sciences</td>
<td>3</td>
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<tr>
<td>HHS/CNU 503 Nutrition for Health Professions</td>
<td>1</td>
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<tr>
<td>PHY 211 General Physics I</td>
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<tr>
<td>PHY 213 General Physics II</td>
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</table>
Total credit hours for the degree need to total 120 credits. The core required credits for each professional option varies. Therefore, the elective courses to be selected for each option totaling 120 credit hours will be decided in consultation with your Human Health Sciences advisor, Wayne Centers and your faculty mentor.

**HHS Degree Paths – Course Planning**

The course plans below have been prepared for each year within the HHS program. HHS students are highly recommended to follow the course plans however slight deviations are possible depending upon circumstances. Deviations from the course plans should be discussed with the HHS advisor (see next page).
### HUMAN HEALTH SCIENCES TRACK LAYOUT

#### DENTISTRY TRACK

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Course/Credit Hrs.</th>
<th>Year 2</th>
<th>Fall</th>
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<th>Year 3</th>
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<tr>
<td>Also during YEAR 1:</td>
<td></td>
<td>PSY 100 (4), MA 137 (4), and other UK Core reqs.</td>
<td></td>
<td>Also during YEAR 2:</td>
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<td>UK Core requirements</td>
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#### PHARMACY TRACK*

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#### PHYSICAL THERAPY TRACK*

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#### PHYSICIAN ASSISTANT TRACK

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<td>Also during YEAR 3:</td>
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<td>UK Core requirements</td>
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*Notes a track with an early admissions option. Interested students should notify the HHS Academic Advisor.
### HHS Recommended Electives

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>HHS 101 Survey of Health Professions I (1) – strongly recommended</td>
<td>1</td>
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<tr>
<td>HHS 102 Survey of Health Professions II (Shadowing Experience) (1) – strongly recommended</td>
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<tr>
<td>HHS 354 Health Law (3) – strongly recommended</td>
<td>3</td>
<td></td>
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<tr>
<td>HHS 395 Independent Study (1-3)</td>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td>HHS 455 Research Experience in Human Health Sciences (1-3) – strongly recommended</td>
<td>1-3</td>
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<tr>
<td>HHS 470 International Experience in Health Sciences (1-6)</td>
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<tr>
<td>HHS 480 Seminar in Human Health Sciences (1-3)</td>
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<tr>
<td>HHS 400 Nutrition for Physical Activity, Injury Prevention, and Rehabilitation (2)</td>
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### Non-HHS Sample Electives

Public Health courses that also satisfy UK Core

**UKC 131 Disease Detectives: Public Health through Popular Film (3)**

**CPH 201: Introduction to Public Health (3)**

Other Electives

- BIO 304 Principles of Genetics (4)
- CD 220 Sign Language I (3)*
- CD 230 Sign Language II (3)*
- CLM 355 Financial Management of Health Care Institutions (3)*
- CLM 444 Leadership & Human Resource Management (3)*
- CLM 445 Quality & Productivity Improvement & Evaluation (3)*
- CLM 452 Community & Institutional Planning for Health Services Delivery (3)*
- CNU 500 Integrative Care (1-3)* (AT, CD, HS, PAS 500)
- CNU 501 Nutraceuticals and Functional Foods (2)*
- CNU 502 Obesity: Cell to Community (2)*
- CSC 528 Lab Procedures (2)*
- KHP 420G Physiology of Exercise (3)
- MLS 460 Clinical Hematology (3)*
- MLS 461 Clinical Microbiology (3)*
- MLS 462 Clinical Chemistry (3)*
- MLS 463 Immunohematology (3)*
- NFS 311 Nutritional Biochemistry (3)
- SPA 151 Spanish for Health Professionals (3)

* denotes courses in other College of Health Sciences disciplines

**Course Descriptions – Course Descriptions can be found in the Appendix**
Progression in the Program

Admission to Graduate and Professional Programs
Not all students in the HHS degree program need to pursue admission to a graduate or professional program. The completion of the Bachelor of Science in Human Health Science does not guarantee acceptance into any professional or graduate program.

Student Advising
A critical component of the HHS program is student advising, particularly during the first two years. Each student in the HHS program will meet with their Academic Advisor at least twice a semester. This allows the advisor and students to stay in close communication regarding student satisfaction and academic progress.

Performance Criteria for Advancement
A particularly important feature of the HHS degree program is ongoing monitoring of student performance. Systematic review of each student’s progress ensures sensitivity to possible changes in career goals and interests. At the same time, it guarantees timely intervention for those students experiencing difficulty in prerequisite science courses or with grade point averages that could jeopardize admission into a professional program. Students will be counseled about academic support available to them, provided with a realistic appraisal of the likelihood for admission to their graduate or professional program of choice, and informed about a variety of alternative career paths within and outside of healthcare, including careers available for those with a BS in the HHS and other options. The purpose is to identify the best match between the students’ interests and skills and their chosen educational and career path.

Academic Concern
To remain in good standing within a healthcare focused curriculum, it is imperative that students address academic issues early to maximize opportunities for success. Certain “concern indicators” are proposed that can create developmental opportunities for students and advisors to discuss progress and develop and implement action plans.

- Students who receive a semester grade of C or lower in any required courses will raise academic concern and will require further advising assistance. It is the student’s responsibility to seek assistance through his/her Academic Advisor.
- A semester GPA of less than 3.0 or a course grade of D or F will result in academic probation in the program.
- To overcome academic probation, a plan must be developed with the Academic Advisor (this may include scheduled monthly meetings, use of campus tutoring resources, regular progress meetings, etc.).
- If a student does not follow the plan outlined by the Academic Advisor, the student may be dismissed from the program.

Academic Probation
Many other programs across campus require a certain level of academic rigor to maintain enrollment (e.g., College of Nursing, College of Engineering, Honors Program). In conceptualizing a probationary status for the HHS degree program, it is necessary to maintain a high standard for the students
enrolled in this program. Further, students who hope to enter a professional or graduate program within the health care professions must attain a high GPA. Students may be placed on program probation a total of two times during their academic career. (See flowchart of the process below).

Students earning less than the required GPA and students failing to return to good academic standing after one semester of probationary status can be released from the program without an option to return.

Students on program probation, working with their HHS advisor, will work out a plan which may include some or all of the following:

- Attend at least 4 hours of supervised study time per week
- Schedule a monthly advising appointment with their academic advisor
  - During the add/drop window (August, January)
  - 4 weeks into the semester (September, February)
  - Eight weeks into the semester (October, March)
  - Prior to the final drop deadline (first week of November, first week of April)
  - Deadweek of each semester (December, April)
- Submit academic progress reports to their academic advisor at each advising session.
- Additional requirements will be determined on an individual basis.

**Release from the program**

Students released from the HHS program will be advised about additional degree paths to consider, including relevant degree options.

**Academic Appeals Council**

Students who do not meet the minimum cumulative GPA requirements at the end of each academic semester may be released from the program with or without an option to return. Students have the right to appeal to remain in the program. The appeals committee meets twice annually. A student can file an appeal to remain in the program no more than two times. Appeals documents can be obtained from the program director. The appeals committee is made up of one faculty member from each of the graduate or professional option programs/colleges (Dentistry, Pharmacy, Physician Assistant Studies, and Physical Therapy). Three faculty members will serve on the hearing panel at any point in time, along with the Interim Director, CHS Assistant Dean of Student Affairs, the HHS Advisor, and two HHS students. Faculty and students are appointed each year by the Dean of the College of Health Sciences or the HHS Program Director.
Student Probation and Release Policy

HUMAN HEALTH SCIENCES PROGRAM
PROBATION AND DISMISSAL DECISION TREE

1. Student is placed on probation by CHS Assistant Dean.
2. CHS advisor in CHS in the Office of Student Affairs calls a meeting of the following: student and the CHS appeals committee.
3. At the meeting, specific remediation plan is developed; copy placed in student’s file.
4. Student’s progress is monitored by student’s academic advisor.
5. If a course must be repeated, the academic advisor will work with the faculty member for the course to appraise the student’s progress.

Failure to maintain a 3.0 GPA or receiving a D or F in a course.

Failure to maintain a 3.0 GPA or receiving a D or F in a course.

Automatic dismissal from the CHS degree Program

Automatic dismissal from the CHS degree Program

Student may exercise appeal option to Academic Appeals Council (ACC)
- Appeal must be filed within 10 working days of the posting of the D or F grade and/or the GPA below a 3.0.

1. CHS Assistant Dean reinstates student (who continues on probation) or upholds dismissal.
2. If reinstated, another remediation plan is developed (see process above).

ACC recommends to CHS Assistant Dean whether to reinstate or uphold dismissal

Students will be advised on other options for a degree through consultation with the academic advisor.

01/17/2012
HHS Student Expectations
Students should complete the HHS Student Expectations Letter and turn it in to their academic advisor.

Academic Integrity, Cheating, and Plagiarism

Students in HHS Program are expected to adhere to the highest standards of academic honesty. Cheating, plagiarism, and destruction of course materials violate the rules of the University. For more information on the University’s policy on Students Rights and Responsibilities see the following website: http://www.uky.edu/StudentAffairs/Code/index.html Violations of the university’s rules regarding academic honesty can lead to a failing grade in the course and suspension, dismissal or expulsion from the University. Instances of academic dishonesty will be reported to appropriate University officials as required by University rules and procedures. Not knowing the policies is not an excuse so make sure you read Parts I to IV at the website.

A link to a paper "Plagiarism: What is it?" may be found at the Ombud web site or can be accessed at http://www.uky.edu/Ombud/Plagiarism.pdf.

Students who violate academic integrity, cheating and/or plagiarism must report any violation to the HHS Academic Advisor within a week of the incident. In addition to University process, policy and imposed procedures for these infractions other actions may be recommended by the Health Sciences Standards Committee.

If there is a recurrent violation of academic integrity, cheating and/or plagiarism the incident is again to be reported to the HHS Academic Advisor within a week of the incidence by the student and the matter will be brought before the HHS Standards Committee for deliberation and action, which will likely result in dismissal from the HHS program.
In order to assist students and to ensure success in matriculating through the Human Health Sciences Program, the following expectations need to be clearly understood and agreed to by each student:

1. Advising
   a. I understand that I will meet with my Academic Advisor at least 3-4 times during each semester.
   b. I understand that it is important that I report to my Academic Advisor any degree of difficulty that I may experience with my courses, as well as any issues regarding my personal conduct or behavior (both university policy and legal issues included).
   c. I understand that faculty mentors will be available to me for academic and personal guidance and advice during the first year and that I should participate in any meetings scheduled with them to discuss my academic progress or other issues of interest.

2. Academics
   a. I understand that I must become familiar with all student academic resources to assist my progress in the program.
   b. I understand that my advisor will set goals with me at the beginning of each academic year and that it is my responsibility to seek out resources to accomplish those goals.
   c. I understand that while my Academic Advisor will provide me with resources and/or referrals, it is my responsibility to seek help/input as needed.
   d. I understand that a semester grade of C or lower in any required courses will raise academic concern and will require further advising assistance. It is my responsibility to seek assistance through my Academic Advisor.
   e. I understand that a semester GPA of less than 3.0 will result in my academic probation in the program.
   f. I understand that to overcome academic probation, I must abide by a plan developed by my Academic Advisor (which may include scheduled monthly meetings with my advisor, use of campus tutoring resources, regular progress meetings, etc.). I understand that if I am placed on academic probation, and if I do not follow the plan outlined by my Academic Advisor, I may be dismissed from the program.
   g. I understand that I need to be familiar with, and abide by, the policies stated in the University of Kentucky’s Student Conduct/Rights and Responsibilities [link](http://www.uky.edu/StudentAffairs/Code/) and the Health Care Colleges Code of Student Conduct [link](http://www.uky.edu/Provost/APFA/Policy_Protocol/HCCSPBC.pdf)

3. Service
   a. I understand that service is highly valued within the healthcare professions and that I should embrace service activities to prepare for my future career opportunities.
   b. I understand that I will be expected to participate in at least 10 hours of service per semester. These service hours can be logged online and maintained by my Academic Advisor. Any opportunities to participate in interprofessional service activities are encouraged.
   c. I understand that I must make every effort to participate in monthly HHS cohort informational meetings with my Academic Advisor. These sessions will supplement my overall experience within the major and shall not count as service hours.

I understand and will abide by all of the aforementioned expectations

____________________________________  __________________________________________  ________________
Student Signature    Student Name Printed    Date Signed

____________________________________  _______________________________
Wayne Centers - Academic Advisor    Geza Bruckner – Professor/Program Director
APPENDIX

GENERAL CONTACT INFORMATION

Interim Dean for the College of Health Sciences
Dr. Sharon Stewart
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ACADEMIC POLICIES AND GENERAL INFORMATION

University Resources and Services

- Academic success including
  - Academic support
  - Academic advising
  - http://www.uky.edu/AcademicSuccess/
- Division of Student Affairs including
  - Counseling center (consultation and psychological services)
  - Testing center
  - Disability resource center
  - Student center
    - http://www.uky.edu/StudentAffairs/index.html
- Career center
  - http://www.uky.edu/careercenter/
- Financial aid
  - http://www.uky.edu/FinancialAid/
- University Health Services
  - http://ukhealthcare.uky.edu/uhs/
- Libraries
  - http://www.uky.edu/Libraries/

Research Opportunities and Resources

The Office of Undergraduate Research in the College of Health Sciences is committed to fostering the curiosity of undergraduate students, by offering multiple opportunities, across a variety of topics, for mentored, self-directed work. Participating in an undergraduate research experience can take many forms, ranging from collecting performance data with human subjects to staining tissue cultures, depending on the student’s area of interest.

Engaging in research will help you learn to apply what you know to questions that interest you, use that experience to select a future career, and take pride in seeing your ideas come to life. The goals of the College of Health Sciences undergraduate research initiative are to (1) Foster independent thinking and creativity, (2) Offer guidance and mentorship to students interested in research, (3) Provide a forum for students to present the results of their research, and (4) Encourage students to consider careers in the health sciences.

Eight research laboratories, located on the 4th floor of the Wethington building, encompass approximately 7000 square feet. Labs include all the state-of-the-art equipment required for biochemical, molecular and cellular analyses, including water purification systems, real time PCR and tissue culture equipment. Labs are supported by common use facilities including equipment rooms, sterilization and dishwashing facilities, liquid nitrogen storage and an imaging facility that encompass an additional 1000 square feet. The imaging facility has 4 Zeiss microscopes: two fluorescent microscopes, the AxioImager M1 upright and AxioObserver D1 inverted, each with Axiocam HRC (color) and Mrm (black and white) digital cameras and AxioVision automated image analysis software; and two upright bright field microscopes, one with dual eyepieces for teaching purposes.

Some current projects include:
- Understanding the aging voice and language processing
- Overcoming feeding and swallowing disorders
- Preventing muscle wasting during disuse and aging
- Understanding muscle stem cell function with obesity, following exercise, and during aging
- Rehabilitation strategies to prevent long term muscle and joint dysfunction
- Infrastructure establishment for rehabilitative research in rural Kentucky
- Understanding voice maturation and development of voice disorders in children
- Preparing clinical health care providers for rural employment
- Relationship of student outcomes to school-based physical therapy services
- Nutrition and cardiovascular disease

You can find more information at: http://www.mc.uky.edu/healthsciences/research/index.html
Scholarships and Loans

College of Health Sciences Scholarships:

The College of Health Sciences has scholarships available only to students who have been admitted to one of the CHS programs. Once admitted to a CHS program, students will be notified of all scholarships available to them during your program. Notification will be through email, student mailboxes, or posted on the Student Lounge Bulletin Board.

Academic Excellence Scholarship:
These are awarded to students who have completed a minimum of 12 credit hours in our college. Announcements will be made in the Spring and awarded for the following academic year.

Diversity Enhancement Scholarship:
Available to any full-time student who represents diversity of thought, culture, gender, race, ethnicity or are underrepresented in the health professions. Announcements will be made in the Spring and awarded for the following academic year.

For more information on CHS scholarships:
http://www.mc.uky.edu/healthsciences/studentaffairs/scholarships.html
Course Descriptions

HHS Required Courses

HHS/CLM/HSM 241 HEALTH AND MEDICAL CARE DELIVERY SYSTEMS (3) (pending approval as a required course)
Review of the wellness-illness spectrum and the societal response in terms of health services. Topics to be covered include the nature and functions of health services agencies and professionals, and the impact of social, political, economic, regulatory, and technological forces. Also includes a discussion of major health problems and related healthcare programs.

HHS/CLM 350 HEALTH POLICY AND POLITICS (3)
This course will address the development of past and current U.S. health policies within the context of historical, economic, cultural, and political environments. The political process and the roles and responsibilities of the executive, legislative, and judicial branches of government will be examined. The power and influence that politics, money, the media, and special interest groups have had, and continue to have, upon the development of national and state health policies will be discussed and analyzed. Prereq: Student in CLM or HHS program or permission of instructor.

HHS 351 HEALTH SERVICES ADMINISTRATION (3)
Theories and practices of administration in healthcare institutions with special emphasis on organizational behavior and analyses of various administrative processes and techniques. Prereq: Professional program status (which includes an earned Associate Degree in a healthcare discipline and one year of post-degree work in a healthcare setting) or consent of instructor. (Same as CLM 351.)

HHS/CLM 353 ETHICS IN HEALTHCARE (2)
The course will include a study of moral reasoning and ethical theories in medical ethics. Ethical issues arising in the practice of healthcare delivery will be examined. Codes of ethics and the health professional's obligations to patients, colleagues, employing institutions and the community will be considered, and relevant case studies will be analyzed.

HHS 356 SEMINAR IN INTERPROFESSIONAL HEALTHCARE (1-2)
A study of selected topics in health and wellness with a focus on the way individuals experience health and utilize resources within their individual nesting environments of health and social communities. Topics will include an exploration of individual perceptions and experiences of health, wellness, and quality of life throughout the lifespan and resources available to achieve health. A minimum of 2 hours of seminar is required, and at least 1 seminar must be taken in the final year of the program. Prereq: Admission to the HHS Program or consent of instructor.

HHS 361 HEALTHCARE QUALITY & PATIENT SAFETY (3)
This course provides students an opportunity to study how healthcare quality and patient safety has changed over the last 10 years, how human error and 'high-reliability organizations' (e.g., hospitals) interact, how changes to our healthcare system have affected care, and how quality/safety/improvement theories from other industries are impacting healthcare. Prereq: Admission to the HHS Program or consent of instructor.

HHS 362 INTERDISCIPLINARY HEALTH ADVOCACY (1-2)
The course will provide experiences as a health navigator for students in the health sciences. Students will work with patients who are seeking advice about the availability of health resources, health services, and health information. Students will be trained in skills needed to become effective health navigators. A
minimum of 2 credits is required, and at least 1 credit must be taken in the final year of the program Prereq: Admission to HHS Program or consent of instructor.

HHS/CLM 405 EPIDEMIOLOGY AND BIOSTATISTICS (3)
This course will provide a foundation in the principles and methods of the epidemiological investigation of disease with special emphasis on the distribution and dynamic behavior of disease in a population. Etiologic factors, modes of transmission and pathogenesis will be examined. Topics to be covered include epidemics and the spread of infectious disease, epidemiological aspects of non-infectious disease; rates of morbidity and mortality, sensitivity, specificity, and predictive values’ strategies used in epidemiological studies to include measures of disease effect, validity, reliability; sampling methods and computer-based biostatistical analysis that emphasize the generalized linear mode and forms of SEM as appropriate for an upper division undergraduate course. Prereq: Admission to CLM of HHS program or consent of instructor.

HHS 443 HEALTH INFORMATION MANAGEMENT (2) (pending approval for change to 2 credits)
This course provides students with an opportunity to understand and address the challenges associated with healthcare change and improvement intended by the Recovery Act of 2009. Students will focus on clinician and clinical leader roles in the implementation of an Electronic Medical Record. The course includes material relating to Personal Health Record (PHR) models, architectures, market forces, and law. Students will understand the advantages for using the electronic medical record and mechanisms for planning successful implementation. Prereq: Admission to HHS Program or consent of instructor.

HHS 450 INTRODUCTION TO DENTISTRY (3)
This course is an introduction to the profession of dentistry and provides a brief overview of some pre-clinical dental courses that are taught in the first two years of dental school. The student will be familiarized with basic dental terminology, current issues in dentistry, and the latest techniques and technology used in clinical settings. The student will have the opportunity to develop manual dexterity and learn basic clinical etiquette and safety procedures. This course serves as a foundation for students interested in pursuing a career in dentistry or for those who want to enhance their knowledge of oral health prior to entering any health field. Prereq: Admission to HHS Program or consent of instructor. Two semesters of biology with Lab and Human Anatomy recommended, but not required.

HHS 451 INTRODUCTION TO MEDICINE (2)
The course will provide students with the skills to complete patient interviews and take the medical history. A limited number of physical examination maneuvers will be discussed; the focus will be on gaining an understanding of why a complete and accurate medical history and physical examination are key to quality medical practice. The course will cover the scope of practice and ethical codes for physicians and physician assistants. Prereq: Admission to HHS Program or consent of instructor.

HHS 453 CULTURAL COMPETENCE IN HEALTHCARE (3)
This course is designed to introduce the student to concepts of culture, race, ethnicity, and competence. Emphasis will be placed on identifying individual characteristics and their influence on bias. Factors related to culturally and linguistically appropriate healthcare will be reviewed. Prereq: Admission to HHS Program or consent of instructor. Meets university writing requirement (pending approval).

HHS 454 RESEARCH IN HUMAN HEALTH SCIENCES (3)
An introduction to basic methods for undertaking research on issues related to health, healthcare, and within health services organizations and systems. Students will become critical consumers of research by learning how to evaluate and apply the results of health research conducted by others. The course will also assist those who will be carrying out clinical research or program evaluation within health delivery systems. Prereq: Admission to HHS Program or consent of instructor.
HHS/CNU 503 NUTRITION FOR HEALTH PROFESSIONS (1) – (pending approval)
An interdisciplinary approach to applied and medical nutrition therapy and its role in primary, secondary, and tertiary health care delivery. Covers the fundamental principles and concepts of nutrition science as applied to the human life cycle. Prereq: Undergraduate senior students planning to enroll or students who are currently enrolled in the Colleges of Medicine, Nursing, Dentistry, Pharmacy or Health Sciences. Completion of at least one semester of physiology; one semester of organic chemistry or biochemistry, and preferred, clinical exposure.

HHS Recommended Electives

HHS/HSE 101 SURVEY OF HEALTH PROFESSIONS I (1)
An introduction to the health sciences professions including an exploration of health sciences careers.

HHS 102 SURVEY OF HEALTH PROFESSIONS II: SHADOWING EXPERIENCE (1)
This course provides students with opportunities to explore the health sciences professions. It assists students in developing beginning observation, recording, and reporting skills appropriate to the professions selected for their on-the-job shadowing experiences.

HHS 354 HEALTH LAW (3) Introduction to concepts of administrative and tort law applicable to health care settings. Topics to be considered include governance, patient rights, informed consent, medical/moral problems, malpractice, tax laws, contracts, labor law, regulation and institutional liability.

HHS 395 INDEPENDENT STUDY (1-3)
Independent study for undergraduate students with an interest in a specific problem, topic, or issue in human health sciences. Prereq: Admission to HHS Program or consent of instructor.

HHS 400 NUTRITION FOR PHYSICAL ACTIVITY, INJURY PREVENTION AND REHABILITATION (2) (pending approval)
This course will acquaint students with general concepts in nutrition that relate to physical activity, injury prevention and rehabilitation. The content of the course is organized in such a way that students can progress logically from knowledge of basic human nutrition processes to the specific nutrition related issues commonly observed in physically active individuals and nutritional needs to prevent injury and aid healing following injury.

HHS 455 RESEARCH EXPERIENCES IN HUMAN HEALTH SCIENCES (1-3)
Students complete a mentored, self-directed research experience. Students work with faculty to develop an experience of mutual scientific interest. The nature of the experience and the subsequent activities and expected outcomes are defined and outlined in the research contract between the student and mentor. Prereq: Consent of instructor

HHS 470 INTERNATIONAL EXPERIENCE IN HUMAN HEALTH SCIENCES (1-6)
This course provides students with opportunities to explore international issues in healthcare through study and international travel. Course content and organization will depend on the topic to be studied and credit hours. Prereq: Admission to the HHS Program or consent of instructor.

HHS/CLM 480 SEMINAR IN HUMAN HEALTH SCIENCES (1-3)
Study and analysis of current and topical problems and issues regarding the roles, trends and research for healthcare professionals. May be repeated to a maximum of 6 credits. Prereq: Admission to CLM or HHS Program or consent of instructor.

Non-HHS Electives
BIO 304 PRINCIPLES OF GENETICS (4)
A study of the physical and chemical aspects of the genetic material and their relationship to the expression and inheritance of the phenotype. Lecture, three hours; recitation, two hours per week. Prereq: BIO 150, BIO 152, and BIO 315.

CD 220 SIGN LANGUAGE I (3)
An introductory course in American Sign Language (ASL), the native language of the Deaf community in America. This course lays a foundation for effective, respectful participation in a culturally and linguistically diverse society. The course will employ an immersion approach to develop basic skills in conversational ASL and fingerspelling, as well as an appreciation of the basic grammatical principles of ASL, the historical and cultural background of the language, linguistic and ethical principles related to use of ASL and the role of Deaf culture in society. Prereq: CODI or HHS majors or permission of the instructor.

CD 230 SIGN LANGUAGE II (3)
An intermediate level course in American Sign Language (ASL), the native language of the Deaf community in America. This course will use an immersion approach to develop skills in conversational ASL and fingerspelling, as well as an appreciation of the grammatical principles of ASL, the historical and cultural background of the language, linguistic and ethical principles related to use of ASL, appropriate use of interpreters, and the role of the Deaf culture in society. Prereq: Successful completion of CD 220 (ASL I) or permission of the instructor.

CLM 355 FINANCIAL MANAGEMENT OF HEALTHCARE INSTITUTIONS (3)
A review of financial management practices in healthcare institutions. Course will analyze regulatory and third party reimbursement for financial management, financial management practices, impact of financing mechanisms and practices on health services decision making. Prereq: Professional program status (which includes an earned Associate Degree in a healthcare discipline and one year of post degree work in a healthcare setting) or consent of instructor. (Same as HSM 355.)

CLM 444 LEADERSHIP AND HUMAN RESOURCE MANAGEMENT (3)
This course focuses on clinical leadership and managerial roles and responsibilities, with particular emphasis on organizational design, theory, and behavior. Human resource management, team leadership, and strategies for promoting employee motivation, loyalty, and productivity will be discussed. Other topics to be discussed include writing a business plan, financial and budgetary considerations, public relations, and quality and productivity. Laboratory compliance, government regulations, and accreditation will also be covered. Prereq: Admission to the CLM Program or consent of instructor.

CLM 445 QUALITY AND PRODUCTIVITY IMPROVEMENT AND EVALUATION (3)
A core program course that focuses on leadership and management knowledge, skills, and practices that promote clinical quality, efficiency, and productivity. Methods to measure, monitor, and evaluate quality and productivity will be discussed. Prereq: Admission to the CLM Program or consent of instructor.

CLM 452 COMMUNITY AND INSTITUTIONAL PLANNING FOR HEALTH SERVICES DELIVERY (3)
Theoretical foundations for health planning. History of health planning and regulation. Specific attention will be given to integration of institutional planning with community health planning. Prereq: Professional program status (which includes an earned Associate Degree in a healthcare discipline and one year of post-degree work in a healthcare setting) or consent of instructor. (Same as HSM 452.)

CNU 500 INTEGRATIVE CARE FOR HEALTH SCIENCES (1-3)
Integrative care involves using the best possible treatments from both complementary/alternative and
allopathic medicine, based on the patient's individual needs and condition. The selection of healthcare providers should be based on good science and this course will introduce students to complementary and alternative healthcare providers and the practices and beliefs of these practices as well as the scientific evidence in support of these practices. The course integrates successes from both worlds and describes the safest, least invasive, most cost-effective approach while incorporating a holistic understanding of the individual. May be repeated to a maximum of 3 credits (1 credit didactic and up to two credits experiential/research). (Same as AT 500, HS 500, CLS 500, CD 500, PAS 500.)

CNU 501 NUTRACEUTICALS AND FUNCTIONAL FOODS (2)
The course will cover the classification, brief history and the impact of nutraceuticals and functional foods on health and disease prevention. Some of the nutraceuticals to be covered in the course include isoprenoids, isoflavones, flavanoids, carotenoids, lycopene, garlic, omega 3 fatty acids, vitamin E and antioxidants, CLA, herbal products, probiotics and prebiotics.

CNU 502 OBESITY C2C: CELL TO COMMUNITY (Subtitle required) (2)
This course will provide an overview of the obesity epidemic from an applied clinical as well as public health perspective. Topics to be covered include etiology, pathophysiology, evaluation, treatment, management, and prevention of obesity throughout the lifecycle.

KHP 420G PHYSIOLOGY OF EXERCISE (3)
An in-depth study of the immediate and long-term effects of exercise on the human organism. Lecture, two hours; laboratory, two hours. Prereq: ANA 209, PGY 206 or equivalent. Junior, senior or graduate standing.

MLS 460 CLINICAL HEMATOLOGY (3)
This course is a study of the formed elements of the blood including the practice of routine and specialized test procedures. Anemias, leukemias and non-malignant disorders are discussed and emphasis is placed on the correlation of hematology test results with these diseases and disorders. Prereq: Admission to MLS program or consent of instructor.

MLS 461 CLINICAL MICROBIOLOGY (3)
The study of medically significant microbiology, including normal flora and pathogens. Lectures also cover microbial physiology, interactions between host and pathogenic microorganisms and the clinical and epidemiological consequences of these interactions. Clinical bacteriology knowledge will be applied through case studies. Prereq: Admission to MLS program or consent of instructor.

MLS 462 CLINICAL CHEMISTRY (3)
This course focuses on the study of the theory and practice of routine and specialized clinical chemistry laboratory testing. This will include discussion of quality assurance issues and instrumentation principles, problem-solving scenarios, and an emphasis on accuracy and confidentiality of potential laboratory findings. Prereq: Admission to MLS Program or consent of the instructor.

MLS 463 IMMUNOHEMATOLOGY (3)
This course consists of the primary principles and practices of blood banking which include blood group systems, antibody detection and identification, compatibility testing, quality control requirements, instrumentation, blood transfusion, donor selection and component preparation. In addition, the course will focus on advanced immunohematology topics including transfusion therapy, apheresis, and component therapy, hemolytic diseases, histocompatibility (HLA) testing and federal regulation of bloodbanking. Prereq: Admission to MLS Program or consent of the instructor.

NFS 311 NUTRITIONAL BIOCHEMISTRY (3)
An introductory study of the biochemical basis of nutrition-the physiochemical properties of nutrients and other essential biochemicals and their role in physiological and metabolic processes. Prereq: CHE 236; PGY 206 must be taken concurrently or prior to NFS 311.

SPA 151 SPANISH FOR HEALTH PROFESSIONALS (3)
The course will teach Spanish terminology and basic grammar related to medical patients, including vocabulary for diagnosis and treatment. Prereq: Prior college or high school Spanish or other experience with the Spanish language roughly equivalent to one semester of college study.