

# Undergrad Research Resources Handout for CHS Faculty

## **Faculty Toolkit** - <https://www.uky.edu/chs/resources/research/faculty-toolkit>

- On CHS Home Page, click on the “hamburger” in the upper right corner > click on the arrow for “**Research Resources**” to show options > click on the link for “**Faculty Toolkit for Undergraduate Research**”. (Use the password “faculty” to enter site.)
- In the Faculty Toolkit you will find resources for:
  - Submitting a new **Research Opportunity** that you want advertised to recruit new undergraduate students to your lab and project.
  - Submitting an **HHS 455 Contract** for new student researchers.
  - Various resources including grading rubrics, ethics readings, credit hour formula table.

## **Faculty Funding Available** - <https://www.uky.edu/chs/ugr/funding-resources>

- On CHS Home Page, click on the **Research** tab along the top menu bar > click on the option for **Undergraduate Research** > click on the option for “**Funding Resources for Undergrad Students and Faculty**”.
- On this funding page, scroll down to **5. Faculty Funding Resources – Microgrants**
  - Description of incentive program to help support faculty who submit new research opportunities for undergraduate students.

## **Student Funding Available** - <https://www.uky.edu/chs/ugr/funding-resources>

- MULTIPLE funding mechanisms exist to support student research including:
  - Funding for travel to conferences, and meeting registration
    - Up to \$350 per student
  - Funding for poster printing and a link to free poster printing
    - Up to \$100 per student
  - Funding for publication costs for student authors on published manuscripts
    - Up to \$250 per student
  - Summer Fellowships
    - Up to \$2,500 per student
- Please inform undergrad students working in your lab about these funding mechanisms.

# CHS Undergraduate Research FUNDING Resources for STUDENTS

MULTIPLE funding mechanisms exist including:

- Funding for travel to conferences, and meeting registration
  - Up to \$350 per student
- Funding for poster printing and a link to free poster printing
  - Up to \$100 per student
- Funding for publication costs for student authors on published manuscripts
  - Up to \$250 per student
- Summer Fellowships
  - Up to \$2,500 per student

See our website for more information at:

- <https://www.uky.edu/chs/ugr/funding-resources>



### **Certificate Program Description**

The College of Health Sciences offers a ***Certificate in Undergraduate Research in Human Health Sciences***. The purpose of this certificate is to encourage and recognize undergraduate students who devote a significant portion of their undergraduate education to scholarly and research pursuits within the College of Health Sciences.

The ***Certificate in Undergraduate Research in Human Health Sciences*** provides any University of Kentucky undergraduate student with the opportunity to gain advanced knowledge in interdisciplinary clinical, translational, and basic research in the human health sciences fields. This certificate will enhance the educational goals of any University of Kentucky student interested in obtaining experience in health-related research to benefit their pursuit of a healthcare related career.

### **Admissions Criteria**

The admissions criteria for the certificate are:

- A minimum second semester freshman
- 3.0 GPA
- Active participation in a research lab and a statement from a CHS faculty research mentor willing to work with the student
- An application submitted through the College of Health Sciences Undergraduate Research web portal

Before beginning any lab work or research experience, all students will be required to:

- Register with the main UK Office of Undergraduate Research to receive funding and presentation opportunity updates.
- Complete human subjects protection (HSP) and responsible conduct in research (RCR) training.
  - If the student is working with animals or animal tissues, the student may substitute human subjects training with some form of animal welfare training through IACUC.
- Complete web-based lab safety modules as needed and directed by their faculty mentor.

### **Requirements to Earn the CHS UG Research Certificate**

- A total of 12-15 credit hours will be required for the CHS UG Research Certificate. All required courses for the certificate must be completed with an overall GPA of a 3.0 or better and each course within the certificate must be completed with at least a C or better. Courses are described below and can be adapted to accommodate students enrolled in the Honors Program as requested.
- In addition to these course credits, the student must participate in some form of research dissemination (oral or poster presentation, manuscript prep, lit review, lecture, etc.) during their certificate program. The form of research dissemination required for a given student will be left up to the faculty mentor in consultation with the student mentee.

## 1. **Course Requirements:**

- **HHS 454: Research in Human Health Sciences (3 credit hours)**

This course provides an introduction to basic methods for undertaking research on issues related to health, healthcare, and within health service organizations and systems.

- **HHS 455: Research Experience in Health Sciences (6 -9 credit hours)\***

HHS 455 provides the student with the opportunity to engage in independent work devoted to research on a specific problem with the goal to challenge the student to synthesize concepts from his/her total program and relate them to his/her specific field of research interest. Students work under the direction of a faculty mentor in an area of mutual scientific interest. Student and mentor collaborate to develop a research contract that outlines the expectations of the research experience including: a description of the experience with goals and objectives, and tasks for completing the objectives with timelines and criteria (with percentages) for assessment. As part of the HHS 455 course, students will also engage in additional activities deemed necessary by the faculty mentor including participation in the mentor's lab group/journal club, IRB or IACUC protocol preparations, discussions with the mentor on topics related to research ethics, and additional presentation experiences at scientific meetings, etc. These additional activities are varied and flexible and are meant to involve the student into the scientific life and culture of the mentor's lab.

- **Out-of-Discipline Course (3 credit hours) (*Course must be at 300 level or higher*)**

The student and mentor will collaborate together to select an out-of-discipline course (ODC) to meet this requirement of the certificate program. The course may come from any program on the UK campus with the caveat that the content of the course be specific to the student's scientific field of interest. For example, a student with a major in communication sciences and disorders interested in the effects of preterm birth on family stress might take a course in sociology (A&S), psychology (A&S), or health care navigation (HHS). Alternatively, a student interested in aging muscle might take a course in gerontology (GRN), public health (CPH), or physiology (ANA). The connection between the selected course and its application to the area of research the student is currently engaged in, must be clearly linked in the agreement between the student and faculty mentor. In considering course options, the student/mentor are responsible for obtaining any necessary instructor consent prior to student enrollment. (***Please note: Required courses for a student's primary major cannot be used to satisfy the ODC requirement for the certificate. ODCs must be independent of the student's primary major.***)

## 2. **Dissemination Requirement - Presentation-Manuscript Preparation:**

- Lastly, in addition to the three course requirements listed above, students seeking the UGR certificate are required to complete **either** (1) a presentation to a targeted group (e.g. professional meetings, journal clubs, other scientific or clinical meetings), (2) poster preparation for a regional/national/international conference, (3) manuscript development/writing with mentor, **or** (4) writing a scholarly literature review. Other forms of dissemination will be allowed as needed with prior approval from the CHS Director of Undergraduate Research (DUR).

\*If a student comes from another academic unit with research experience, the mentor (in consultation with the DUR) can agree to have 3 credit hours count toward the 6-9 credit hours of research experience required for the certificate. In addition, students could elect to complete this requirement under the direction of different mentors as long as they demonstrate that this is justified for their scientific field of interest.