

UC 12255 135

APPROVED FEB 20 2013

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## HONORS BIOMEDICAL SCIENCES

The proposed Honors Biomedical Sciences program will provide a rigorous, competency-based undergraduate education for highly qualified students interested in professional schools and careers in the Health Sciences. Students selected to participate in the new program will major in Honors Biomedical Sciences in the College of Natural Sciences & Mathematics (NSM) and minor in Medicine & Society through the Honors College. The HBS curriculum will build on NSM's strong, honors-level math and sciences courses, with laboratory studies that are designed to focus on medically relevant skills and techniques. The minor in Medicine & Society will add a broad base of interdisciplinary studies encompassing humanities, health policy, public health, and other fields of knowledge essential to the well-rounded healthcare provider of the 21<sup>st</sup> century. The Medicine & Society experience also incorporates observational and shadowing experiences in healthcare settings. HBS students will be members of the Honors Program for Health Professions (HP<sup>2</sup>) which will provide specialized and individual mentoring, advising, and guidance throughout their careers at UH as well as numerous career-based and appropriate social events.

### **Primary Track**

Most HBS students will complete a senior year of high level science courses that are designed to make them very attractive candidates for professional and graduate schools as well as prepare them well for the coursework at these schools. In addition, some of these students will be offered a place in the 3/4 Medical School track if and when spaces become available (see below)

### **3/4 Medical School Option**

UH is partnering with selected medical schools to jointly recruit and admit select HBS participants. These HBS students will complete the first three years of the HBS curriculum at UH. Those who continue to meet select criteria based on GPA and MCAT score will enter medical school for their 4th year of study. Coursework completed during the first year of professional studies will fulfill degree requirements for completion of the Bachelor of Science degree in HBS.

### **Pharmacy School Option**

Students who are accepted to UH Pharmacy school may use their first year of coursework to fulfill their 4<sup>th</sup> year of the HBS requirements.

Discussions are ongoing to add extra options to the degree program associated with other professional and graduate schools (UH Optometry School, Baylor College of Medicine MD and MS programs etc)

## **Admission Requirements**

Matriculation into the Honors Biomedical Science program is by invitation only. Students must be members of the Honors College. Invitations are based on:

### *Honors Biomedical Sciences*

SAT Score (CR and Math) 1350 minimum or ACT equivalent (31)

Acceptance into UH and into the Honors College

Students must have obtained either a 4 on at least one math or science AP exam or a 7 on the IB before beginning classes.

### *3/4 Medical School Option*

Acceptance into the 3/4 Medical School option has the additional requirements of:

SAT Score (CR and Math) 1400 minimum or ACT equivalent (32)

Acceptable letters of recommendation and personal statements

Successful interviews with UH and Medical School personnel.

## **Retention Requirements**

While all students can be treated based on individual circumstances, there are requirements to stay within the programs:

### *Honors Biomedical Sciences*

Maintain a 3.40 GPA overall and 3.40 Science GPA

### *3/4 Medical School Option*

Acceptance into Medical School also requires 32 on the MCAT and a 3.80 GPA overall and 3.70 Science GPA

## **Transferred Classes**

The HBS program is one in which courses are more rigorous than the usual mainstream courses and also tailored to meet the demands of preparation for the various senior year options. Thus, no alternative courses or credit options will be considered as replacements for any of the required science, math, or Medicine in Society coursework. Other courses are subject to the usual stipulations of the Honors College.

## Course Requirements (Honors classes marked with \*)

### **CORE (28 hours):**

- \*Honors Human Situation (10 hours)
- \*Honors History (6 hours)
- \*Honors Government (6 hours)
- Visual/Performing Arts course (3 hours)
- \*Honors Social Sciences course (3 hours)

### **SCIENCE AND MATH (51 hours)**

- \*Honors General Chemistry (6 hours)
- \*Honors Organic Chemistry (6 hours)
- Microbiology or Biochemistry 1 (3 hours)
- \*Honors General Biology (6 hours)
- \*Honors Genetics (3 hours)
- General Physics (6 hours)
- Science Labs (10 hours)

- Calculus 1 and 2 (8 hours)
- Statistics for the Sciences (3 hours)

### **MEDICINE AND SOCIETY (15 hours)**

- \*Readings in Medicine and Society (3 hours)
- \*Electives (9 hours)
- \*Honors Research (3)

### SENIOR YEAR

*Track 1* – Medical School curriculum

*Track 2* – UH Curriculum (27 hours)

- Biochemistry 2 (3 hours)
- Cell Biology or Molecular Biology (3 hours)
- Human Physiology (3 hours)
- 2 Biology/Biochemistry Electives (6 hours)
- Analytical Chemistry and Lab (4 hours)
- Instrumental Analysis and Lab (5 hours)
- Physical Chemistry (3 hours)

*Track 3* – UH Pharmacy School curriculum



### Spring

CHEM 3332H	3 hours
BIOL or 3332 or BCHS 3304	3 hours
HON 3301H	3 hours
History	3 hours
Labs	2 hours

**Total**                      **14 hours**

### Summer

MCAT preparation or

HON 3399	3 hours
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**Total**                      **3 hours**

### Year 3

#### Fall

History	3 hours
Social Science	3 hours
Labs	3 hours
Government	3 hours
Med/Soc elective	3 hours

**Total**                      **15 hours**

#### Spring

VPA	3 hours
Med/Soc elective	3 hours
Med/Soc elective	3 hours
Labs	3 hours
Government	3 hours

**Total**                      **15 hours**

### Summer

HON 3399/4399	3 hours
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**Total**                      **3 hours**

### Year 4

Multiple options

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**From:** Evans, Ian  
**Sent:** Monday, February 11, 2013 2:26 PM  
**To:** Morales, Jeanette F  
**Cc:** Bott, Simon G; Khan, Shuhab D; Peters, Charles; Shah, Shishir; Sater, Amy; Donna Stokes  
**Subject:** NSM Curriculum Committee submissions  
**Attachments:** HBS Degree Plan.doc  
**Categories:** Business

Dear Jeanette: The NSM Curriculum Committee has met and unanimously approved the following two items:

1. The Honors Biomedical Sciences program (see attached)

→ DPC/CB3#1 Subcommittee

2. Language to be added to the catalog in the NSM Policies and Procedures section at the end of the section "Readmission from Academic Suspension"

APP. Subcommittee

**Students on a first academic suspension** - are required to reapply for readmission to UH after sitting out for one long semester. If they apply for readmission after their sit out semester, and before 13 months have elapsed, the college will readmit them under contract. If they sit out for more than 13 months they will be required to meet UH and NSM entry standards at the time of their application, and can only do so by taking course work elsewhere in order to generate a blended GPA (cum and MATH & SCIENCE GPA) greater than 2.49.

Please let me know if you have any questions.

Ian