

## ALLIED HEALTH SCIENCES Concentration in Health Sciences

### SAMPLE SEQUENCE OF COURSES CATALOG YEAR Beginning 2020-2021

Pre-Med/Pre-Dent: Courses in *italics* are required for the MCAT/DAT exams.

FALL

SPRING

YEAR ONE			
<i>CHEM 1124Q or 1127Q</i> <sup>+</sup>	4	<i>CHEM 1125Q or 1128Q</i> <sup>+</sup>	3-4
<b>MATH 1060Q or higher</b> (Suggest 1131Q for Med/Dent)	3-4	<b>BIOL 1107</b>	4
<b>PSYC 1100</b>	3	<b>PHIL 1000-level</b> (general education – CA1)	3
<b>ENGL 1010 or 1011</b>	4	<b>General Education#</b>	3
<b>UNIV 1800 (FYE)</b> (strongly recommended)	(1)	<b>Elective#</b> (Suggest MATH 1132Q for Med/Dent)	3-4
	14-16		16-18
YEAR TWO			
<b>Sciences Elective</b> <sup>f</sup> (Suggest BIOL 1108; must take <i>CHEM 1126Q</i> if taking 1124Q, 1125Q and 1126Q sequence)	3-4	<b>CHEM 2443</b> <sup>+</sup> (Related Cognate* <sup>f</sup> ) or <b>2241</b> <sup>+</sup> (consider fall for concurrent enrollment in CHEM 2242)	3
<b>PHYS 1201Q or 1401Q or 1501Q</b>	4	<b>PHYS 1202Q or 1402Q or 1502Q</b>	4
<b>General Education</b> (Suggest <i>ENGL lit – CA-1</i> )	3	<b>General Education</b>	3
<b>General Education</b> (Suggest <i>SOCI or PSYC – CA-2</i> )	3-4	<b>STAT 1000Q or 1100Q</b>	4
<b>AH 1100</b>	1	<b>AH 2001</b> (may be taken any semester)	2
	14-16		16
YEAR THREE			
<b>AH major</b> *	3	<b>AH major</b> *	3
<b>Related Cognate</b> * <sup>f</sup> (Suggest <i>CHEM 2444</i> <sup>+</sup> )	3	<b>Related Cognate</b> * <sup>f</sup> (Suggest <i>MCB 2000</i> )	3-4
<b>Elective#</b> (Suggest <i>CHEM 2445</i> <sup>+</sup> if not used as Sci. elective)	3	<b>Related Cognate</b> * <sup>f</sup> (Suggest <i>MCB 2400 or 2410</i> )	3
<b>Sciences Elective</b> <sup>f</sup> (suggest <i>BIOL 1108 or CHEM 2445</i> )	3-4	<b>General Education</b>	3
<b>COMM 1000 (CA2) or 1100</b>	3	<b>Elective#</b> (Suggest <i>MCB 2210</i> )	3
<b>CHEM 2242</b> <sup>+</sup> (if taking CHEM 2241 – 2242 not offered in spr.)	(1)		
	15-17		15-16
YEAR FOUR			
<b>AH major</b> *	3	<b>AH major</b> *	3
<b>AH major</b> *	3	<b>AH major</b> *	3
<b>Related Cognate</b> * <sup>f</sup> (Suggest <i>PNB 2264</i> )	4	<b>Related Cognate</b> * <sup>f</sup> (Suggest <i>PNB 2265</i> )	4
<b>Elective#</b>	3	<b>Elective#</b> (suggest <i>PUBH 3001</i> )	3
<b>Elective#</b>	3	<b>Elective#</b>	3
	16		16

**Total 122-131 credits - 120 credits required for graduation** (total credits vary depending on credits assigned to required, elective, general education, AH major, and related cognate courses).

\* **Electives** - The total number of elective courses needed to meet the 120 credits for graduation will vary depending on the number of credits assigned to each course. *Students may need to take additional electives.* Students should track credits for graduation carefully and take elective credits accordingly. Some courses require prerequisites (i.e. biochemistry). Students can utilize electives to complete prerequisite requirements. **It is also suggested that students incorporate social/behavioral courses as electives since this content is required for some graduate admission exams such as MCAT.** This plan of study assumes the **foreign language** is completed prior to admission to the university. If a language is required, students may take language courses as electives. Students may also choose to incorporate a **minor** into their plan of study by utilizing elective credits.

+ **Chemistry and Math sequence:** While the major allows different chemistry sequences and math level to meet program requirements, chemistry sequence and math level taken will be dependent on career goal and graduate program admission criteria. Students should consult with their advisor for appropriate courses to complete this requirement.

§ **Schedule sequence** – The above sequence of courses is a *sample*. Actual sequencing may vary based on advising and student goals.

<sup>f</sup> **Science Elective and Related Cognate** – Courses taken depend on career goals and graduate program admission criteria. Some courses require prerequisites. The same course *cannot* be used for both a science elective and a Related Cognate (group B). Science electives **CANNOT** be courses used for the general program requirements. Students should consult with their advisor for appropriate courses to complete these requirements.

\* **AH major and Related Cognate** – 36 credits of coursework 2000-level or above is required for graduation (see reverse side of form). Courses taken depend on career goals and graduate program admission criteria. Most courses may be taken in any sequence. Courses *must* be passed with a grade of “C” or better. Not all courses are offered every semester. Some AH major courses are restricted to students in their junior year and above. Some AH major courses require prerequisites (i.e. statistics). Please consult with your advisor regarding availability and sequencing. Additional courses in AH and CAHNR not used to meet AH major requirement may be used to meet Related Cognate requirements.

-- additional information on page 2 --

+ **Organic Chemistry** (CHEM 2241 and 2242 or 2443, 2444, and 2445) is required for this concentration; \*pre-med/dent requires the higher level. Students may use these courses to meet the elective, science elective or (if passed with a grade of C or better) the Related Cognate requirement.

**W course requirements:** Students are required to take 2 "W" skill coded courses. **AH 4240W satisfies the "W" in the major.** Note: AH 4240W requires concurrent enrollment in AH 4239. *Students may take the second "W" as a general education, elective, related cognate, or AH major course.*

**Environmental Literacy:** Students may complete the Environmental Literacy (E) requirement as either a GER, Elective, AH major or Related cognate.

### 36-credit Major Requirements for Allied Health Sciences Major

#### Concentration in Health Sciences

Beginning Catalog year: 2020-2021

Students must complete a minimum of 36 credits in the major. Courses meeting the 36-credit major requirements must be 2000-level or above and passed with a grade of C or better. Courses may be repeated once for a total of two times. Students may use up to 8 credits *only* of coursework from a minor to meet this requirement. Some courses have prerequisites; students are advised to reference the catalog for course requirements. Some courses may require departmental/advisor/instructor consent\*; Subject to availability.

<b>Group A</b> <b>CAHNR Major Courses</b> <b>Minimum of 18 credits required</b>	<b>Concentration in Health Sciences</b>
<b>Group A-1 major</b> <b>"W" in the major</b>	<b>Required:</b> Students must register <u>concurrently</u> for these courses AH 4239 Research Methods in Allied Health AH 4240W Writing for Allied Health Research
<b>Group A-2 major</b>	<b>Required:</b> AH 2001 Medical Terminology <b>Plus 2 of the following:</b> AH 3000 U.S. Healthcare System and Professional Practice AH 4242 Counseling and Teaching for the Health Professional AH 4244 Management for the Health Professional
<b>Group A-3 major</b>  Select from: AHS and other CAHNR courses as indicated  Other courses may be used to meet this requirement with advisor and department head approval. Students are advised to review course selections with their advisor prior to registration	<b>Plus 3 additional courses (or 8 credits) from the following:</b> AH 3005 Biostatistics for the Health Professional AH 3021 Environment, Genetics and Cancer AH 3025 Human Physiology in Health and Disease AH 3101 Health and Wellness for Life AH 3121 Immunology for the Medical Laboratory Sciences AH 3175E Environmental Health AH 3203 Aging: Implications for Health Professionals AH 3320 Introduction to Infectious Diseases AH 4092 EMT Training (Hartford Hospital EMT program admission required) AH 4225 Genetic Testing and Genomic Medicine AH 4243 Current Issues in Health AH 4297W Honors Thesis in Allied Health Sciences (Honors students only) DGS 3226 Current Genetic Research DGS 4234 Diagnostic Molecular Technologies DGS 4246 Contemporary Issues in Human Genetics KINS 4500 Exercise Physiology KINS 4510 Exercise Physiology II NUSC 4236 Metabolism and Functions of Nutrients NUSC 4250 Nutrition for Exercise and Sport PVS 3100 Histologic Structure and Function PVS 4300 Principles of Pathobiology
<b>Group B</b> <b>Related Cognate Courses</b> <b>Minimum of 18 credits required</b>  Courses used to meet this requirement must have advisor and department head approval on the final plan of study. Students are advised to review course selections with their advisor prior to registration.	<b>Required:</b> A minimum of 18 credits that speaks to the student's career goals and interests approved by the advisor and department head; may include courses throughout the university but must be clearly evident as a health-related <u>science</u> course (e.g. AH major Group A-3 courses listed above <u>not</u> used to meet that requirement, BIOL, CHEM, MCB, PHYS, PNB or other courses with advisor and department head approval). *A maximum of 6 credits of combined coursework in AH 3091, AH 3099, AH 2093, AH 3289, AH 4289, AH 4093; DIET 3099; DGS 3999; and MLSC 4099 may also be used to meet this requirement ( <i>provided they are science-based</i> ) with advisor and department head approval.

**Note:** Students may take additional AH department courses to meet elective requirements.