

HONORS SPECIALIZATION - Medical Sciences

Course Selection Guideline

The Basic Medical Science Disciplines include: Anatomy & Cell Biology, Biochemistry, Epidemiology & Biostatistics, Medical Biophysics, Microbiology & Immunology, Pathology, Pharmacology, and Physiology.

Second-year selection:

3.5 courses recommended

0.5 course: Biochemistry 2280A

1.5 courses: Biology 2581B, 2382B and 2290F/G

0.5 course: Chemistry 2213A/B

0.5 course: If Chemistry 2223B is going to be taken, it should be taken in second year

0.5 course from: Biology 2244A/B or Statistics 2244A/B

Points to consider:

- One more Basic Medical Science half course could be taken in second year but this makes for a heavy course load.
- The statistics requirement could be taken in third year to lighten the load in second year.
- A minimum of 3.0 foundation courses must be completed by the end of second year.
- Students not wishing to take Chemistry 2223B can take any Chemistry at the 2000- or 3000-level

Third-year selection:

3.0 courses from the Basic Medical Sciences at the 2000- or 3000-level.

Points to consider:

- Students must include courses such that prerequisites are met to take 2.0, 4000-level courses in fourth year.
- Students must include courses so that they will have 2.0 courses in one discipline by the end of fourth year (e.g. 2.0 Physiology courses)

Issues:

- Some courses are heavily constrained, e.g. Pathology 3240A, Physiology 3130Y and Pharmacology and Toxicology 3580Y. Students should review [Constraints](#) on this website under **Courses**.

Fourth-year selection:

3.0 courses recommended

1.0 course: Medical Science 4900F/G, Medical Sciences 4930F/G

2.0 courses from: the Basic Medical Sciences at the 4000-level

Points to consider:

- Medical Sciences 4900F/G and Medical Sciences 4930F/G should be taken concurrently. If that is not possible, Medical Sciences 4930F/G must be taken first.
- Students must take at least 2.0 courses at the 4000-level.
- By the end of fourth year, a minimum of 5.0 courses at the 2000-, 3000-, or 4000-level must be completed from the Basic Medical Sciences
- Of these 5.0 courses:
 - 2.0 courses must be from one discipline (e.g. 2.0 Physiology courses),
 - 2.0 courses must come from a second discipline or a combination of disciplines that is different from the first (NOT Physiology...e.g. 2.0 Microbiology & Immunology courses or a combination of disciplines such as 0.5 in Microbiology & Immunology, 0.5 Pharmacology, and 1.0 in Anatomy & Cell Biology)
 - 1.0 courses can come from any discipline (e.g. 0.5 Physiology and 0.5 Pharmacology, or 1.0 Anatomy & Cell Biology).