

SPECIALIZATION in Medical Sciences

Course Selection Guideline

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

Second-year selection:

3.5 courses recommended

0.5 course: Biochemistry 2280A

0.5 course: Biology 2581B,

0.5 course: Biology 2382B,

0.5 course: Biology 2290F/G

0.5 course: Chemistry 2213A

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.
- Students must take a minimum of 3.0 courses from the module in second year.
- Students not wishing to take Chemistry 2223B may take any Chemistry course at the 2000- or 3000-level

Third-year selection:

3.0 courses from the Basic Medical Sciences are recommended.

Points to consider:

- Students must include courses such that prerequisites are met to take 1.0 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. Students should review the [Course Constraints](#) on this website under **Courses**.

Fourth-year selection:

2.5 courses from the Basic Medical Sciences are recommended including **1.0 course** at the 4000-level.

Points to consider:

- By the end of fourth year, a minimum of 5.5 courses at the 2000-, 3000-, or 4000-level from the Basic Medical Sciences must be completed.
- Of these 5.5 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)
 - 1.5 courses can come from any discipline (e.g. 1.0 Physiology and 0.5 Pharmacology)
- Pathology 3240A and 4440B are heavily constrained and unlikely available.