

## **HONOURS SPECIALIZATION IN PHYSIOLOGY AND PHARMACOLOGY**

### **ADMISSION REQUIREMENTS**

Admission to this Honours Specialization module occurs in Year 3 and requires admission to Year 3 of the Bachelor of Medical Sciences (BMSc) Program. Students will usually complete MEDICAL SCIENCES FIRST ENTRY (Medical Sciences 1 and 2) prior to admission to the Honours Specialization module. Enrolment in this Honours Specialization module is limited and meeting the minimum requirements does not guarantee admission.

The 1000-level half courses listed below must each be completed with a mark of at least 60%:

- 1.0 courses: Biology 1001A and Biology 1002B
- 1.0 courses: Chemistry 1301A/B and Chemistry 1302A/B.
- 0.5 course from: Calculus 1000A/B, Calculus 1500A/B.
- 0.5 course from: Applied Mathematics 1201A/B, Calculus 1301A/B, Calculus 1501A/B, Mathematics 1600A/B.
- 0.5 course from: Physics 1201A/B, Physics 1501A/B, the former Physics 1028A/B, the former Physics 1301A/B.
- 0.5 course from: Computer Science 1026A/B, Physics 1202A/B, Physics 1502A/B, the former Physics 1029A/B, the former Physics 1302A/B.

The 2000-level courses below must be completed with a minimum mark of 60% in each prior to admission to the Honours Specialization module in Year 3. These 2000-level courses will also be used towards the Module requirements. See ADMISSION TO THE BACHELOR OF MEDICAL SCIENCES (BMSc) PROGRAM for additional average, course load requirements, etc. A minimum average of 75% in the fall/winter of the most recent academic year, e.g., Year 2, is required, as well, since this minimum average is included in the prerequisite for Physiology and Pharmacology 3000E.

- 0.5 course: Biochemistry 2280A.
- 1.5 courses: Biology 2290F/G, Biology 2382A/B, Biology 2581A/B.
- 0.5 course: Chemistry 2213A/B.
- 0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B

## MODULE

10.5 courses:

0.5 course: Biochemistry 2280A.

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

0.5 course: Chemistry 2213A/B.

0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B.

1.5 courses: Physiology 3120, Physiology 3140A, with marks of at least 70% in each.

1.0 courses: Pharmacology 3620 with a mark of at least 70%.

11.0 course: Physiology and Pharmacology 3000E with a mark of at least 70%

0.5 course: Medical Sciences 3391A/B

1.5 courses Physiology and Pharmacology 4980E (Seminar and Research Project = 1.5 courses).

1.0 additional course in Pharmacology, Physiology and Pharmacology, at the 4000-level.

1.0 additional course in Physiology, Physiology and Pharmacology, at the 4000-level.

Students registered in Year 4 of this module in 2025/26 will satisfy the requirements as stated in the 2024/25 Academic Calendar.

## PROGRESSION REQUIREMENTS – for students registered in Year 3 of this module in 2025/26 and onward.

In addition to the usual [Progression Requirements for HONOURS SPECIALIZATION MODULES](#), students must complete the following 6.5 modular courses by the end of Year 3 (note: some courses require individual marks greater than 60%):

- Biochemistry 2280A;
- Biology 2581A/B, Biology 2382A/B, Biology 2290F/G;
- Chemistry 2213A/B;
- Biology 2244A/B or Statistical Sciences 2244A/B;
- Pharmacology 3620 with a mark of at least 70%;
- Physiology 3120 and Physiology 3140A with marks of at least 70% in each; and
- Physiology and Pharmacology 3000E, with a mark of at least 70%.

It is recommended that students complete Medical Sciences 3391A/B prior to Year 4.

Students registered in Year 3 of the Honours Specialization in Physiology and Pharmacology in 2025/26 and onward who satisfy these Progression Requirements are assured progression to Year 4 of the Honours Specialization in Physiology and Pharmacology.

BMSc students who are not registered in Year 3 of the Honours Specialization in Physiology and Pharmacology in 2025/26 and onward may be considered for admission to Year 4 of the Honours Specialization if (i) the minimum Admission and Progression Requirements are satisfied, (ii) spaces are available, and (iii) permission is granted.