BCP

Pharmacology

BCP 400: Writing in Pharmacology
See requirements for the major in pharmacology, upper-division writing requirement.
Prerequisites: Pharmacology major; U3 or U4 standing; permission of instructor
SBC: WRTD
S/U grading

BCP 401: Principles of Pharmacology
Prerequisites: BIO 362; CHE 322 and 327; a g.p.a. of 3.00 or higher in these courses and their prerequisites.
Corequisite for pharmacology majors: BCP 403
4 credits

BCP 402: Advanced Pharmacology
Prerequisites: BCP 401 and 403; minimum of B- in BCP 401
Corequisite: BCP 404
4 credits

BCP 403: Principles of Pharmacology Laboratory
Prerequisite: Permission of instructor
Corequisite: BCP 401
SBC: ESI
2 credits

BCP 404: Advanced Pharmacology Laboratory
The use of molecular modeling software for the understanding of structure activity relationships. In vivo studies to demonstrate the pharmacological mechanism of action of drugs acting on the autonomic, cardiovascular, and renal systems. Pharmacokinetic studies, using HPLC, to determine the rate of absorption, distribution, and excretion of therapeutic agents. Radio- and enzyme-immunoassays for the detection of circulating hormones. Cell culture techniques for drug determination and evaluation. This course has an associated fee. Please see www.stonybrook.edu/coursefees for more information.
Prerequisites: BCP 401 and 403; permission of instructor
Corequisite: BCP 402
SBC: ESI
2 credits

BCP 405: Pharmacology to Pharmacy: Practical Clinical Aspects for Non-Clinicians (Didactic)
This course, to be offered exclusively online, is designed for undergraduates interested in health care (either basic medical science-oriented or clinical). The class introduces many aspects of clinical pharmacology, but is geared toward non-clinicians. Clinical vignettes and case discussions will be presented. Several medical procedures will be first described and then demonstrated. Understanding these procedures will be integral to appreciating the vignettes and clinical case discussions. The multidisciplinary course faculty will include physicians, scientists, educators, nurses and pharmacists. Enrolled students will have the opportunity to ask questions directly through online chats.
Prerequisite: U3 or U4 status or permission of the instructor
SBC: ESI
3 credits

BCP 406: Pharmacology Colloquium
Seminars on research in pharmacology and toxicology presented by faculty and distinguished scientists from academic and industrial institutions. Students are expected to develop an understanding of the scientific principles presented in the colloquium.
Speakers meet with the students after the seminar to discuss research concepts and to answer questions. One hour Journal Club/ Discussion followed by one hour seminar. May be repeated.
Prerequisites: BIO 202 and 205; CHE 322; a g.p.a. of 3.00 in these courses and their prerequisites
SBC: SPK
2 credits

BCP 444: Experiential Learning
This course is designed for students who engage in a substantial, structured experiential learning activity in conjunction with another class. Experiential learning occurs when knowledge acquired through formal learning and past experience are applied to a “real-world” setting or problem to create new knowledge through a process of reflection, critical analysis, feedback and synthesis. Beyond-the-classroom experiences that support experiential learning may include: service learning, mentored research, field work, or an internship.
Prerequisite: WRT 102 or equivalent; permission of the instructor and approval of the EXP+ contract (http://sb.cc.stonybrook.edu/bulletin/current/policiesandregulations/degree_requirements/EXPplus.php)
SBC: EXP+
S/U grading

BCP 475: Undergraduate Teaching Practicum in Pharmacology
Prerequisites: Pharmacology major; U4 standing; permission of department
SBC: EXP+
3 credits, S/U grading

BCP 487: Research in Pharmacology
Completion of an individual student research project under the supervision of a faculty member. Previously acquired laboratory course techniques and new procedures are utilized. Experimental results must be submitted to the department for grade evaluation in the format of a research report. Not for credit in addition to HBB 396, 398, and 399. May be repeated.
Prerequisites: BIO 202 and 205; CHE 322 and 327; a g.p.a. of 3.00 in these courses and their prerequisites; permission of instructor and department
SBC: EXP+
0-6 credits

BCP 488: Internship
Research participation in off-campus laboratories, the pharmaceutical industry, and other academic and public agencies. Repeatable up to 12 credits.

*Prerequisites: BIO 361; CHE 322; g.p.a. of 3.00 or higher in these courses and their prerequisites; permission of department*

**SBC:** EXP+  
*0-6 credits, S/U grading*