ADVISING TOOL FOR INTRODUCTORY BIOLOGY 1100 AND 1151

Students who plan to earn an Associate's Degree or a Bachelor's Degree are required to take science courses as part of the General Education Core. Usually two courses are required with one in physical science (chemistry, physics, or earth science) and the other in life science (biology, botany, zoology, anatomy and physiology, or microbiology), with at least one course including a lab component. Many students select a biology course for their life science requirement. At the College of DuPage there are two general introductory biology courses from which a student can choose. Survey of Biology 1100 is a non biology majors course, while Principles of Biology 1151 is a biology majors/pre-professional course. Both courses have the same IAI number of LI 900L, but they are very different courses. If both Bio 1100 and Bio 1151 are taken, the required number of semester hours of science laboratory work may not be met for four-year institutions.

The following table compares the two general introductory biology courses so that students and advisers can make the best decision as to which course is most appropriate for the student to take.

Items	Survey of Biology, Biology 1100	Principles of Biology I, Biology 1151
		
Student audience	Non biology majors	Biology majors & pre-professional
Type of course	1 semester, not part of a sequence, not common prerequisite	1 semester, Bio 1151 can be taken as a stand-alone course OR as part of a two semester sequence including 1152 in the following semester. Bio 1151 is <u>strongly recommended prior to taking</u> Anatomy & Physiology (A & P) 1551/1571 and Micro 1420.
Level of focus	General: broad	Specific: technical, abstract

Semester credits	4	5
In class time/wk	5 hrs/week: 3 hrs lecture, 2 hrs lab	7 hrs/week: 4 hrs lecture, 3 hrs lab
Expected outside of class study hrs/wk	7-10 hrs/wk	17-21 hrs/wk
Catalog description and prerequisite	This biology course promotes scientific literacy for non biology/science majors and interested students. Organisms are studied from their behavioral, ecological, hereditary, and evolutionary perspectives. An inquiry-based approach to understanding biological processes is emphasized. Students explore the relevance of biology to contemporary issues in human society. **Prerequisite**: Math 0465 or 0481 (or college equivalent) with a C or better, or qualifying score on the MPT or qualifying ACT math score. Reading Placement Test Score Category one	An introduction to biology for the biological science major and interested students. Topics include the philosophy of science, scientific method, chemical organization of life, cell biology, cellular metabolism, genetics, molecular genetics, molecular biology, evolution, and biodiversity of the Bacteria, Archaea, protists, and Fungi. **Prerequisite**: Math 0481 (or college equivalent) with a C or better, or qualifying score on the MPT or qualifying ACT math score. Reading Placement Test Score Category one
Topics	Scientific method, biodiversity, evolution, genetics, behavior, ecology, cells, environmental issues	Scientific method, chemistry, cells, energy/metabolism, genetics, molecular genetics, evolution, diversity of bacteria and fungi

Lab experience	Lab sessions may be held in the lab itself or may include field trips and/or work in the outdoor areas	Labs are routinely held in the HSC labs and require additional work with equipment and special instruments
Bio program courses where Bio ___ is strongly recommended or required*	Botany 1320	**Bio 1152***, 2000 level biology/botany/zoology courses*, A & P 1551/1571, Micro 1420 strongly recommended, other bio/zoo/botany (Botany 1320)
Science or health programs needing intro bio course(s) * = required	Horticulture	Horticulture Clinical Lab Science * Require A & P sequence 1151/1571 where Bio 1151 is strongly recommended: Anesthesia Tech Clinical Lab Science Diagnostic Medical Imaging Radiology Medical Assistant Physical Therapy Assistant Surgical Tech Require A & P sequence 1151/1571 **AND** Micro 1420 where Bio 1151 is strongly recommended for both A & P **AND** Micro: Dental Hygiene Nursing

Student success info		**A & P 1551/1571 sequence**-students with Bio 1151 prep before A & P generally have a higher success rate, better prepared for the work **Micro 1420**-majority of students who complete Bio 1151 before micro have greater success rates, Bio 1151 better prepares students for micro
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