



**Bristol Public Schools**  
**Office of Teaching & Learning**

<b>Department</b>	Science
<b>Department Philosophy</b>	Bristol Public Schools science programming provides students with knowledge of the science and engineering practices, crosscutting concepts, and the core ideas of science and engineering to engage in public discussions on science related issues, to be critical consumers of scientific information related to their everyday lives, and continue to learn science throughout their lives. To ensure this level of scientific literacy, Bristol Public Schools anchor science units in phenomena, this practice promotes student ownership of learning and supports student application of the science content as it pertains to the real world. In each science unit, students work to explain phenomena through the applications of the three dimensions of the Next Generation Science Standards: (1) science and engineering practices, (2) disciplinary core ideas, and (3) cross cutting concepts. Bristol's use of phenom-based units and the three dimensions ensure that students connect with and build a deep conceptual understanding of science concepts. Throughout the kindergarten through grade 12 experience, this philosophy provides all Bristol students with the skills and concepts to be scientifically literate adults.
<b>Course</b>	ECE Biology
<b>Course Description for Program of Studies</b>	ECE UCONN Biology 1107 is equivalent to the course that is offered on campus during the Fall semester. It is designed for students that have a strong interest in, or desire to pursue a career in the sciences, and will provide a foundation for more advanced college courses in Biology and related sciences. Topics covered include biochemistry, cell biology (energetics, structure, transport, communication, genomics, protein synthesis), and animal form and function. The course will consist of 50% lecture and 50% laboratory. Students must be willing to participate in all laboratory exercises in BIOL 1107, including the dissection of preserved animals. This is a course is designed to 1) present a rigorous, comprehensive College-Level Study of the Biological Sciences; 2) encourage learners to apply biological principles to real-world problems; 3) help students develop college-level critical thinking skills, writing skills, and study habits; and 4) develop a love of Biology and its complexity and a curiosity for the natural world. A course exit exam created by the University of Connecticut Professors will be cumulative for the content from the entire course (year). The student's UConn grade will be determined as follows: 85% BC grade and 15% Exit Exam grade. A final grade of "C" (73) or better is required to receive UConn credit.
<b>Grade Level</b>	11,12
<b>Pre-requisites</b>	Academic Biology (90 or better) or Accelerated Biology (85 or better); have taken high school chemistry (Acad >90 or Acl >85) or taking concurrently Accelerated or UConn Chemistry. Permission from Instructor if prerequisites are in question.
<b>Credit (if applicable)</b>	1.0

## Course Details and Documents

- [University of Connecticut Syllabus](#)
- [Implementation Guide](#)