

BTN 1110 - Biotechnology and Bioethics  
Credit Type – Proficiency



MIAMI VALLEY  
**TECHPREP**  
CONSORTIUM

<b>Course Description and Learning Outcomes:</b>
<a href="https://www.sinclair.edu/course/params/subject/BTN/courseNo/1110/">https://www.sinclair.edu/course/params/subject/BTN/courseNo/1110/</a>
<b>Faculty Pathway Specialist(s) (Please include name, email and office hours):</b>
Susan Luken, <a href="mailto:susan.luken@sinclair.edu">susan.luken@sinclair.edu</a> , office hours available through email
<b>Resources Needed to Offer Course (software, equipment, books [include ISBN and edition], etc. – please include any associated costs):</b>
Introduction to Biotechnology (4 <sup>th</sup> edition) by Thieman & Palladino, 2019.  Paperback - ISBN-13: 9780134650197 Loose-Leaf- ISBN-13: 9780135186015 eBook-- ISBN-13: 9780137533220 <a href="https://www.pearson.com/us/higher-education/program/Thieman-Introduction-to-Biotechnology-4thEdition/PGM1226580.html">https://www.pearson.com/us/higher-education/program/Thieman-Introduction-to-Biotechnology-4thEdition/PGM1226580.html</a>  Optionally, teachers encouraged to add in hands-on activities, virtual activities, or lab activities to enhance the course.
<b>What is the ideal format for course delivery – in person, online or blended? To what extent could this course be offered online if necessary?</b>
Course can be taught online or in person.  <u>Students will need to complete:</u> 1. Common exams (available online or can be printed out) - Faculty can choose either multiple chapter exams or cumulative final exam to count towards this grade component. 2. Bioethics activities (can be modified) 3. A biotech career exploratory paper with presentation component
<b>How is the final grade for the course determined? (Please list all required assignments, assessments, etc.)</b>
Final Grade is determined by combination of tests, bioethical discussions, and paper with presentation.
<b>Who is responsible for grading the required assignments and/or assessments? (faculty or instructor?)</b>
High school instructor responsible for scoring/grading, but Sinclair faculty are available to answer questions or help give examples. Grades must be posted in eLearn (exam(s), paper/presentation, and bioethics activities)
<b>What is the grading scale for the course?</b>
Grading scale: A is 100-90%, B is 89-80%, C is 79-70%, D is 69 – 60%, F is 59% and below. Yes, borderline grades can be rounded up (89.5 can be an A).

**Must students access the eLearn shell regularly to complete requirements?**

Students will need to complete tests, bioethics activity (can be modified), a career exploratory paper with presentation component, can be modified but needs to have a written and presentation component. The teacher can copy items into their own LMS or use paper/pencil to complete as well, but will need to upload test/assignment grades into their eLearn shell.

**Does the course require access to YouTube, GoogleDrive, etc.?**

Links our offered but not required.

**Additional course details or requirements important for instructors not covered above:**

**Class Presentation & Term Paper.** *These are the instructions that I give my students, you may modify, keep along the same guidelines.*

Students will each pick an area of biotechnology they would most like to explore as a career path. Students will individually submit a report on the subject (50 points). Students may use the internet, journal articles, textbooks and interviews with professionals and other credible sources as resource materials for this project. All references used must be included as a bibliography list using the MLA format. Illustrations may be used where appropriate, but the illustrations will not count towards the total page length. After choosing topics and starting their report, I will ask for each of your topics so that I can group you into similar fields for their oral report. The last two classes of the semester will be set aside for oral presentations of the special project reports. Each group will be given 20 minutes for the presentation. All students in the group are expected to participate in the oral presentation.

**Most common (or popular) degrees this course is in?**

Biotechnology AAS  
Bio Science Lab certificate  
Agricultural Sciences AAS

