

Texas A&M University San Antonio
Biology 3104: Research Experience in Biology
Biology 4304: Undergraduate Research in Biology
Fall 2026

Contact Information

Instructor: Dr. Ashley Teufel
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Class Meeting Times

Varies according to student schedules and availability. Dr. Teufel will set a weekly or biweekly meeting with you.

Because of the nature of research, some weeks we may meet for longer than scheduled, whereas other weeks we may not need all of the allotted time. On average, students are expected to work a *minimum* of twelve hours per week on this course if taking the 3 credit option.

Course Description - 3104

Research Experience in Biology is aimed at providing an introductory research experience in a biology faculty laboratory. Through this experience the student will gain an understanding of how research is conducted outside of a classroom and how the scientific method is actively applied in the specific discipline of the faculty research interests. Students will become part of the research team and will participate in laboratory or field activities as well as meetings/discussions. This course can be repeated for a maximum of 2 credits, the second of which must be under a different faculty member and thus a different discipline in Biology. This course can also be taken as zero-credit during the summer to maintain enrollment for compliance. This course is recommended to be taken before BIOL 4304: Research Projects in Biology. Prerequisite(s): BIOL 1306, BIOL 1106, BIOL 1307, BIOL 1107. TSI Restriction(s): Reading, Math, and Writing

Course Description - 3304

This course provides an independent review opportunity that will allow undergraduates majoring in biology to make an original intellectual contribution to the discipline. Research will be conducted in collaboration with a faculty mentor. Variable credit for a total of 3 maximum. Prerequisite(s): Instructor approval and BIOL 1306, BIOL 1106, BIOL 1307, BIOL 1107. Recommended: BIOL 3104. Approval of instructor is required. TSI Restriction(s): Reading, Math, and Writing

Learning Objectives

Upon completion of this course, the student will be able to:

1. Define the scientific process and explain how projects are designed and initiated
2. Explain the importance of the research project they participated in and the methods underlying the data they collected and/or analyzed
3. Produce an academic product (e.g., poster, report, scientific paper) describing the research that was conducted

Grade Scheme

90-100 = A

80-89 = B

70-79 = C

60-69 = D

< 60 = F

University Policies

See blackboard for University Policies.