

FY 23 (July 2022-June 2023)



Students in Department of Natural Sciences programs can participate in undergraduate research through two different research pathways. Students can work directly with faculty on specific research projects (i.e., traditional undergraduate research projects) or they can participate in research that is offered through Course-Related Undergraduate Research Experiences (CUREs). CUREs are defined as re learning experiences in which whole classes of students address a research question or problem with unknown outcomes or solutions that is of interest to external stakeholders. CUREs offer an important way to expand research opportunities to all students in a program and not just those who seek out these opportunities to work directly with faculty. The department measured this objective by counting student enrollment in designated research courses, SCIE 2999 & BIOL 4894. Plus a count of students participating in Course-Related Undergraduate Research Experiences. The target, based on discussions with peers at other institutions, was to increase enrollment in these courses by 5% over last year.

**10. Objective 1: What was your target outcome for this objective? (1.e. 80% participation, 5% enrollment growth, 7% change in engagement)**

The target, based on discussions with peers at other institutions within the USG STEM IV grant was to increase enrollment in these courses by 5% over last year.

**11. Objective 1: Provide details for your target performance level established (i.e. accreditation requirement, past performance data, peer program review, etc)**

Target performance level was based on discussions with peers at other institutions.

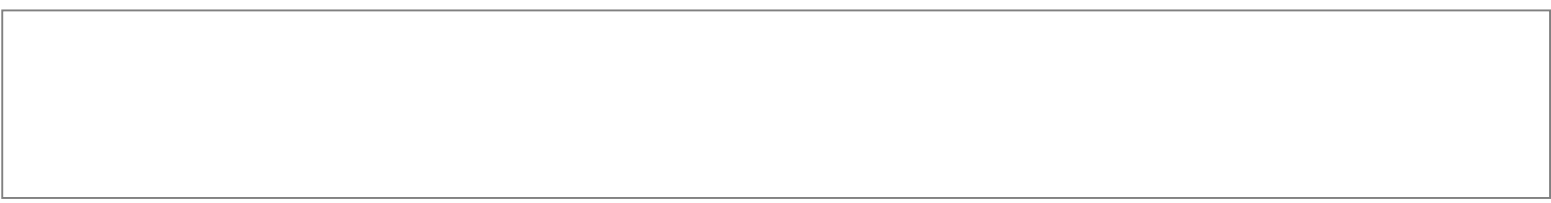
**12. Objective 1: At what level did the department/area achieve on this objective? (This should be a number, i.e. 82%, 6%, 345 attendees, 75% engagement)**

Enrollment in undergrad research increased by approximately 15% and in Course Related Undergraduate Research experiences, enrollment increased by 7.5%. • FY 2020-21-total number of students enrolled in SCIE 2999 & BIOL 4894 was 4; total number of students enrolled in CUREs was 117. Courses offering CUREs included BIOL 1001L, 1002L, 4110, CHEM 1212 (two sections) both semesters. • FY 2021-22-total number of students enrolled in SCIE 2999 & BIOL 4894 was 13; total number of students enrolled in CUREs was 147. Courses offering CUREs included BIOL 3310, 3510, 3540, 4110, CHEM 1212 (two sections) and MATH 3500. • FY 2022-23-total number of students enrolled in SCIE 2999 or BIOL 4894 was 15; total number of students enrolled in CUREs was 158. The specific CURE courses included CHEM 1212, 2212; BIOL 1001L, 3520; and MATH 1113.

**13. Objective 1: Did your department meet this objective?**

- The department did not meet this objective.
- The department met this objective.
- The department exceeded this objective.

**14. Objective 1: Improvement Plans and Evidence of changes based on an analysis of the results: What did your department learn from working toward this objective? What changes will you make based on this effort next year?**





10% increase in faculty & student presenters & attendees.

25.

- The department did not meet this objective.
- The department met this objective.
- The department exceeded this objective.

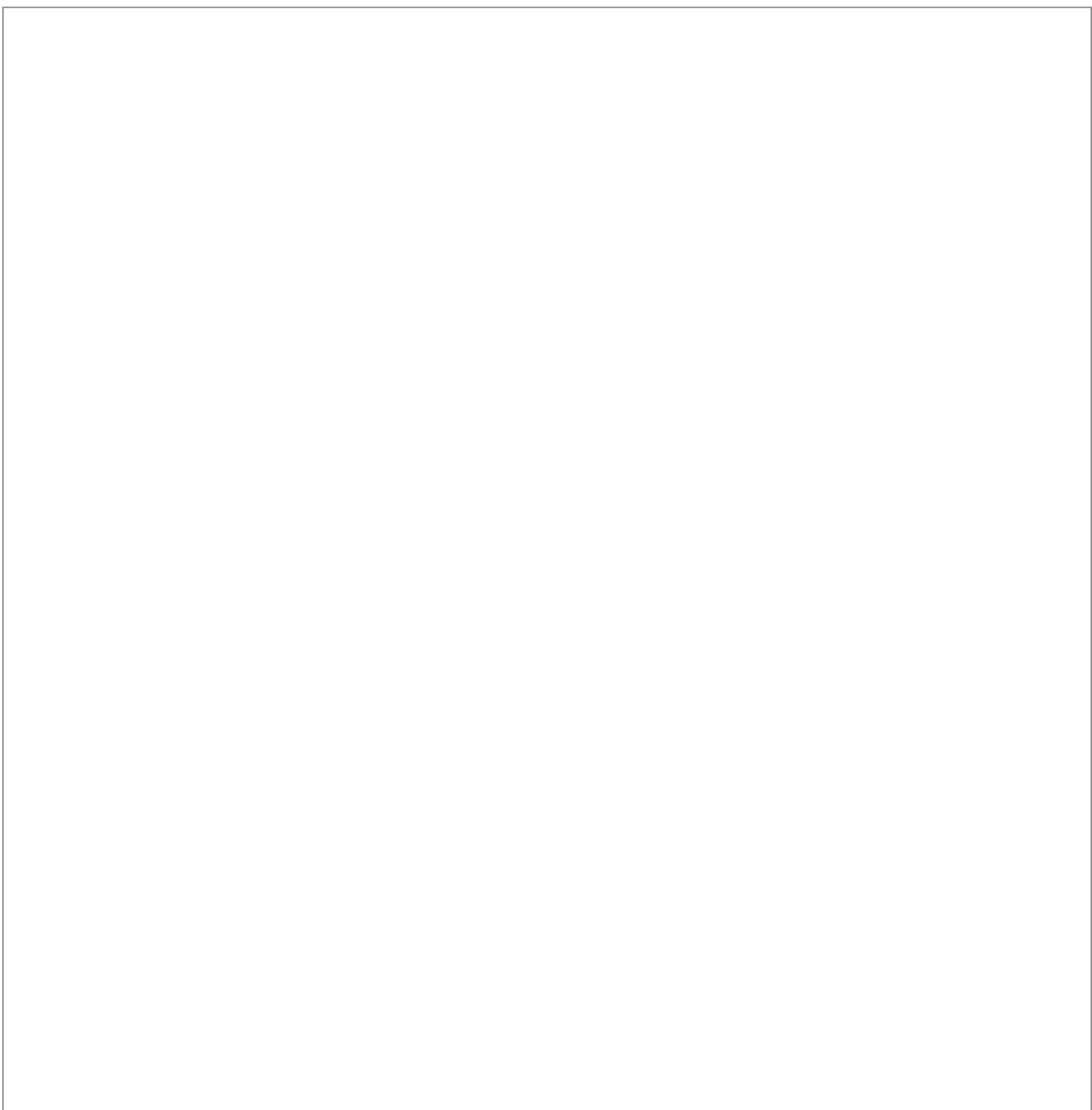
To grow student engagement both within the department/institution and externally in the community.

30.

- The department did not meet this objective.
- The department met this objective.







40. Please identify and detail three to four measurable objectives for the next fiscal year. In listing the objectives, please use the format shown in these examples. 1) The Department of X will improve services levels by 5% as measured by our satisfaction survey. 2) The department of X will provide training in ABC for at least 73 MGA faculty and staff.

• To increase by 5%, biology majors' engagement through participation in undergraduate research projects or Course-Related Undergraduate Research Experiences. • To increase by 5% participation by faculty and students in the STEM Undergraduate Research Symposium. • To review 100% of the B.S. Biology curriculum and compare it to the goals and objectives outlined in Vision and Change in Undergraduate Biology Education (NSF 2009); • To grow by 5%, student and faculty engagement both within the department/ institution and externally in the community.

41. Optional Mindset Update (Academic Deans ONLY) Please provide an update on the implementation of your school based mindset plan/strategy. Include any adjustments to metrics for the FY23 as well as outcomes associated with your appraisal of your schools activities.

42. Optional: The following upload portal is available to supplement your report with supportive documentation should you wish to provide any (instruments, data, etc).