***A UTRGV Transforming Our World Project***

**Team Members:**

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**What is SUBIR?**

The Scholarly Undergraduate-Based Interdisciplinary Research (SUBIR) expands on experiential learning opportunities for undergraduates at the University of Texas Rio Grande Valley (UTRGV) through the Office of Engaged Scholarship and Learning. ​The program engages freshman students in undergraduate research, creative works, and community engagement initiatives by providing mentor-mentee matching, professional development seminars, and proposal writing guidance.​ SUBIR also provides professional development for faculty to design course-based undergraduate research experiences for their students. ​

**SUBIR: Professional Development for Faculty**

SUBIR allowed for five faculty members across disciplines to participate in initiatives that would enhance teaching by designing course-based undergraduate research experiences for their students. ​Each SUBIR faculty member participated in four professional development sessions to prepare them for integrating CUREs into their courses. Sessions were titled: 1) Course-based Undergraduate Research Experiences, 2) CURE Syllabus Development, 3) CURE Syllabus Review, and 4) Critical Reflection. The project overview and sequence is shown below in Figure 1.

Table 2

Summary of CUREs courses

|  |  |  |
| --- | --- | --- |
| Course | Project Description | # students |
| ARTS 4388 | Interdisciplinary between Arts and Engineering product design | 85 |
| ARTS 4344 | Pro-Con poster project on a social cause conducting research and interviews to arrive at their position | 25 |
| ARTS 3381 | Design, make, curate, exhibit, and travel a mobile art museum within the Rio Grande Valley community. | 51 |
| UTCH 3301 | Students are introduced to learning theories and conducted research on integrated into secondary math and science classrooms. | 135 |
| CHEM 4309 | The major objective is to understand how drugs chemically work in our body. Students research chemical structures of drugs and their interactions with our body including how to regulate our physiological functions. | 12 |
| MUSI 1313 | Research related to topics such as Arts Integration, Culture Responsiveness, and teaching during the Pandemic. | 73 |

**CUREs Successes**

* Integration of research in 6 courses and 381 students
* Interdisciplinary collaboration among faculty from different colleges and disciplines
* Led to students applying for and receiving Engaged Scholar & Artist Awards
* Students showcasing work at the 2021 Engaged Scholar Symposium

**SUBIR Freshmen Initiative Successes**

* Year 1 pilot involved a cohort of 4 freshmen students who completed the program and are in academic good standing
* Each student was matched with a faculty mentor, provided academic coaching from ESAA staff and students
* Each student presented at the 2021 Engaged Scholar Symposium
* All 4 plan to continue next year and we have opened a new call for cohort 2