

Science & Environmental Grants 2022-2023

PROGRAM DEADLINE : March 01 2023 at 05:00 PM EST CLOSED

Applicant Information

Name:

[REDACTED]

Email:

[REDACTED]

App ID:

03906789

Status:

Submitted

Last Modified:

Aug 22 2023 12:13 EDT by

[REDACTED]

App Submitted:

Mar 02 2023 11:50 EST by

[REDACTED]

App Created:

Jan 12 2023 12:30 EST by

[REDACTED]

Last IP Address:

34.120.172.148

Applicant Information

Applicant

First Name	[REDACTED]
Last Name	[REDACTED]
Email	[REDACTED]
MCCSC school or building where you work.	Bloomington High School North
Your position / title within MCCSC	Classroom teacher
Grade level you teach or support?	9-12 Science
Phone number or extension	[REDACTED]
Project Partners/Other Persons Involved in Program	IU School of Medicine

Program/Project Information

Proposal Content

Title of Project	Human Cadaver lab field trip for Anatomy and Physiology students
Provide a 3-6 sentence summary to communicate the substance of your proposal to reviewer, media, and use in FMCCS print materials.	

I am requesting funds for a field trip for all students in Dual Credit Anatomy and Physiology at Bloomington North to visit the IU School of Medicine's cadaver lab in Indianapolis. The IU School of Medicine offers customized tours for high school Anatomy students. Approximately 34 students would attend. Funds would be used to cover the \$15/student fee charged by the IU School of Medicine.

# of Students Impacted annually/one time	34
Who will your project serve? (target population)	H.S. Dual Credit Anatomy students
Amount of Funding Requested - Range \$100 to \$1,000	980.00

Detail your project, need, and how funds will be used to impact science and/or environmental education. Include specifics such as school development plans and educational standards and/or research based information your project will help achieve.

Our high school Anatomy course is Dual Credit with Ivy Tech. While we have numerous lab opportunities in our classroom, a key experience that students miss by taking Anatomy at the high school-level rather than at a University, is the opportunity to see an actual human cadaver. The IU School of Medicine in Indianapolis offers custom tours for Anatomy students that provide an opportunity to see an actual human cadaver as well as a 3-D cadaver visualization and other information about medical careers. During the tour students will get to meet with medical students and researchers and learn about more advanced medical education. The IU School of Medicine tour can be customized for specific topics. We would request presentations on musculoskeletal anatomy and the nervous system because those topics cover about three months of our spring semester curriculum. Details of the IU School of Medicine's tour can be found at this website:

<https://medicine.iu.edu/anatomy-cell-biology-physiology/education/outreach-program-cape/tours>.

What are your expected goals and outcomes of the project and for students?

Many of the students enrolled in Anatomy and Physiology are interested in medical-related careers. This field trip would give them an opportunity to experience a professional medical lab and learn about more advanced medical training and medical careers. The IU School of Medicine has excellent teaching and learning resources that provide an outstanding opportunity for our high school students. Students would learn more about different medical careers and the type of educational training required for different medical jobs.

How will you measure your goals and success? Please use quantitative data and list measurement tools you will use to define student improvement, value and expected results. Example: 30 students will be engaged in our environment by observing wildlife in its natural habitat. They will learn the names of local birds and write about them in creative stories.

All Anatomy & Physiology students (34 junior and senior students) would attend the field trip. Our tour would focus on the musculoskeletal and nervous systems. By the time of the trip, students will have spent approximately two months in class learning to identify all of the human bones and major muscles. They will have also learned about the nervous system and brain anatomy. The experience at the cadaver lab would allow students to see applications of what they have learned. In addition, we culminate the Anatomy course with a pig dissection. Seeing a human body in advance will help the students better understand comparative anatomy between a human and pig.

On the field trip, students will be able to identify human muscles in a body, which would serve as a formative assessment of student learning. After the field trip, students will write a reflection on what they observed and learned during the field trip. The final exam for the course includes a lab practical component that requires the students to identify muscles and components of the nervous system. The field trip would provide direct experience to relate the information from the textbook and classroom models to an actual human body.

Define the timeline for implementing accomplishing the stated outcomes. Include in your timeline if the project investment is sustainable and will be used for students beyond one year.

The field trip is tentatively planned for April 2023. At this time the students will have completed their study of the skeletal, muscular, and nervous systems, so they will be able to apply what they have learned to what they see at the Anatomy Lab. Ideally, this will be an ongoing field trip for Anatomy each year.

Please upload any attachment that may help define your project, specific goals, or objectives.

Grant Budget

Upload budget file.

Grant-Budget.xlsx

If your budget is different from amount requested please explain.

Have other funding options been explored?

Yes

List any other sources of funding for this project. Indicate if sources are secure or potential.

No secured funds. Possibility of using course fees or having students pay individually.

To what extent is the project achievable if you were to receive less than the full amount requested?

We currently have no other funding for this field trip. It might be possible to use student course fees, but that would require special approval by administration as an exception to normal use of course fees. Alternatively, I could ask students to pay the cost of the trip themselves. This would cost each student \$15 + a portion of the bus fee and I would take a personal day off.

Renewable Option

I would like to apply for option to renew funding of this grant for the following school year. I agree to submit an impact report at the conclusion of this school year and additional information if needed.

Yes I would like to apply for the renewable option.

Grant Approvals

Building Representative Approval

Building Representative's First Name First Name

Becky

Building Representative's Last Name Last Name

Provines

Building Representative Email Address

bprovine@mccsc.edu

Building Representative Phone Number

812-330-7724

Principal Approval

Principal's First Name First Name

Matthew

Principal's Last Name Last Name

Stark

Principal's Email Address Email Address

mjstark@mccsc.edu

Principal's Phone Number

812-330-7724

Submission

Electronic Signature / Approval

By typing my name, I confirm that I have written this grant and if funded agree to implement in my school or classroom during this school year.

