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Mission

The Northwest Ohio Center for Excellence in STEM Education (NWO) at Bowling Green State University’s College of Education and Human Development has been serving the STEM (science, technology, engineering and mathematics) education needs of northwest Ohio since 2002. With a mission to advance STEM education for people of all ages, NWO is a partnership among area universities and colleges, pre-K-12 schools, educational service centers, and local businesses that share our mission.

As part of a public university for the public good, NWO works with community partners to: a) generate new knowledge about the science of learning, b) apply this knowledge by developing the expertise of K-12 educators and higher education faculty, c) increase public support for and understanding of STEM subject areas, and d) stimulate the interest of young people, especially those in underrepresented groups, in the rewarding fields of STEM study and career opportunities.

NWO strives to provide enriching STEM experiences for all learners with a focus on hands-on and minds-on learning, through the following initiatives:

- Educator Professional Development: Training and enrichment activities for current and future STEM educators
- School & Community Outreach: Engaging learners of all ages in STEM experiences and educational events and programs
- Grant Projects: Research and training grants focused on new and innovative STEM instructional practices
- Undergraduate STEM Research and Scholarship: Supporting the next generation of STEM and STEM education professionals
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INTRODUCTION

A PUBLIC UNIVERSITY FOR THE PUBLIC GOOD.
Ohio STEM Learning Network/Battelle

NWO is one of the seven designated STEM education hubs of the Ohio STEM Learning Network (OSLN) of Battelle, which aims to champion and advance STEM initiatives and education throughout the region and state of Ohio, and serves as the contact for the 29 counties of northwest Ohio. OSLN is a public-private partnership between Battelle and the Ohio Department of Education, delivering high quality professional development, activities, and educational support to inspire the next generation of Ohio innovators. NWO assists schools in the region with Ohio Department of Education STEM School designation through technical assistance and feedback and promotes OSLN grants, activities and events.

e-Newsletter

NWO publishes a monthly e-Newsletter encompassing several sections in each issue, consisting of, ‘What’s happening at NWO?’, ‘K-16 STEM in the NEWS’, ‘Community STEM in the NEWS’, ‘STEM Opportunities’, and ‘NWO STEM Activity’. Subscribers are encouraged to share their story and send NWO their updates, press releases, and news of STEM happenings at their school, district, or organization to be featured in future e-newsletters. The e-News is distributed via our Constant Contact platform to several thousand educators across the state. NWO also archives eNewsletters from the past at: https://www.bgsu.edu/nwo/e-newsletters.html. See Appendix A for a sample of the e-Newsletter.
COMMUNITY PARTNERS/OUTREACH
Our priorities for regional network community outreach include strengthening and expanding our efforts to assist K-12 schools and informal education and business partners in seeking funding and pursuing initiatives to enhance STEM education in the region of northwest Ohio.

In the fall of 2021, NWO partnered with the Educational Service Center of Lake Erie West to form the Northwest Ohio STEM Collaborative, which realized our priority of expanding our reach through community engagement and collaborative partnerships. This Collaborative aims to connect, share, learn and grow STEM knowledge and networking within the local STEM community, while providing high-quality STEM opportunities for K-12 students in the region of northwest Ohio.

NWO also continues community outreach with regional business partners Lubrizol, PPG, and The Anderson’s, who each share a passion for the advancement of STEM education. A frequent partner with GLOBE.gov., NWO promotes GLOBE teacher certification and GLOBE events such as the GLOBE Student Research Symposium mentioned below. 

In addition, NWO relies on the following numerous community partners who support Women in STEM and other NWO efforts with hands-on, inquiry based presentations:
ESC LEW/Challenger Learning Center, Heritage Sylvania, Toledo Metroparks, Crazy Craig, Imagination Station, Keep Toledo/Lucas County Beautiful, Wood and Lucas Counties Soil and Water Conservation Districts, Center for Innovative Food Technology, Ohio 4-H Youth Development STEM, Ohio Department of Natural Resources-Environmental Education and Division of Wildlife, among others.

**Project PRAIRIE**

Project PRAIRIE: (Prairies that Invigorate Inquiry Learning), is a “Wild Toledo Prairie Initiative” that extends into local classrooms by utilizing the native prairie installations as living labs. It is an inquiry based education program that trains students and their teachers to use native prairie habitats for citizen science projects that contribute to a larger body of global research to make a difference in the natural world.

NWO works with the Toledo Zoo Education and Conservation departments to seek grant funding to install Prairies in our partnering school districts. NWO assists the Toledo Zoo, who has procured grant funding from Owens Corning, in an expansion of this program throughout northwest Ohio.
**Events**

**Women in STEM**

The purpose of the annual “Women in STEM” program at BGSU is to provide engaging and enriching STEM activities to 6th, 7th, and 8th grade students in an effort to promote future study and exposure to career options in STEM fields. Through this event, NWO strives to engage participants from the region of northwest Ohio in their own success, leading to interest in STEM related fields and occupations. This program’s aim is to help this age group recognize the wide array of options available in STEM fields, inspiring them to take classes in STEM fields throughout their educational careers.

NWO has implemented the Women in STEM program since 2014 and will continue to do so as the evaluations of this program purport to its success. In addition to the support from our University and the College of Education and Human Development, this program is sustained through continual pursuit of sponsorships and funding from foundations and businesses that share in our vision of increasing the number of females in STEM related fields of study and careers. Numerous BGSU faculty from STEM fields volunteer and present engaging, hands-on STEM activities during the event, while BGSU undergraduates also volunteer as tour guides and show students BGSU scientific labs and campus.

In April 2022, Women in STEM was held on campus for the first “live” event since the global pandemic of 2020, with 350 students in attendance, and was held virtually with much success in April of 2021 with similar attendance. See Appendix B for examples of advertising.

“**My 7th grade girls were really engaged and happy to be able to spend time doing activities meant just for them. Job well done!**
NWO STEM Collaborative

The NWO STEM Collaborative hosted a four-session professional development series facilitated through a partnership with the Educational Service Center of Lake Erie West. All STEM educators and administrators were encouraged to attend the in-person and virtual sessions. Each session offered the opportunity for participants to engage in a hands-on experience and learn new instructional strategies as well as hear from local informal STEM organizations about high-quality classroom resources.

The Northwest Ohio STEM Collaborative offered the following PD at no cost to regional educators:

<table>
<thead>
<tr>
<th>October 14, 2021</th>
<th>December 9, 2021</th>
<th>February 10, 2022</th>
<th>April 7, 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio Wetland Association environmental education project</td>
<td>STEM Task Cards using Makerspace materials</td>
<td>Active Learning via Math Story Problems</td>
<td>Grow Next Gen PD Presentation/Center for Innovative Food Technology</td>
</tr>
</tbody>
</table>

See Appendix C for examples of advertising.

GLOBE Student Research Symposium

In May 2022, NWO co-hosted a first ever GLOBE Student Research Symposium at the Toledo Zoo, with two STEM designated intermediate schools in northwest Ohio participating. GLOBE (Global Learning and Observations to Benefit the Environment) is an international science education program that is dedicated to increasing awareness of individuals and students of all ages about the global environment, to increase understanding of the Earth and support student achievement in science and mathematics.

Fourth grade students from Hull Prairie Intermediate school and Dorr Elementary researched topics that included surface temperature, soil moisture, plant diversity, air temperature, and animal diversity, and presented their projects to STEM expert reviewers. See Appendix D for example or the program.
BioBlitz

Together with partner the Toledo Zoo, NWO held the first ever “BioBlitz BG” event on a natural habitat prairie for local fifth graders from Bowling Green city schools.

“BioBlitz BG” was held in September, 2021 at Wintergarden Park and taught participants how to observe nature and be active citizen scientists, in an effort to help preserve local natural habitats. Students were engaged in exploration and investigation in nature in order to learn about both living and nonliving components of the local prairie ecosystem and what they and their families can proactively do to maintain its health. With assistance from many BGSU pre-service teachers, the enthusiastic fifth graders also cycled through two other citizen scientist activities during the BioBlitz. Students also took cloud observations using the GLOBE Observer App in order to learn how different types of clouds have a different impact on the earth’s climate. Jenna Pollock, Education Program Manager at NWO, taught students how to build their own bee house to demonstrate how providing native bees with a home enhances pollination in natural habitats.

The results and data collections of all the activities were sent to the teachers for them to discuss and reflect on this information with their students to further deepen all learning.

“BioBlitz BG” was sponsored by NWO, the BGSU College of Education and Human Development, the Toledo Zoo, Bowling Green City Parks, and the Lubrizol Corporation. See Appendix E for examples of advertising & recognition.
Project EDUCATE I

Ohio Department of Education’s Diversifying the Education Profession Grant Program
($70,000 1/1/2021-6/30/2023)

NWO is partnering with Washington Local Schools to engage in this work to implement strategies to address the diversity needs within their faculty and staff over two and a half years. Twenty districts from all over the state were awarded funds and WLS represents Lucas County District 2. The mission of the Project EDUCATE (Educators of Diversity: Unified and Collaborative to Aspire Teacher Education) is to increase teachers of color and focuses on creating cohorts of diverse middle and high school students with a goal of placing the cohorts of students on a meaningful and impactful pathway to becoming an educator. Students explore careers in education and connect to positive role models and mentors in education and have been participating in after-school clubs and activities.
Project EDUCATE II

Ohio Deans Compact
($150,000, 8/21 - 6/30/22 and $150,000 7/1/22 - 6/30/23)

In August 2021, NWO was awarded an Ohio Deans Compact award (Applications for New Incentive Grants: Improving the Capacity of Ohio Institutions of Higher Education to Prepare All Educators to Better Meet the Needs of All Learners) in response to the critical demand for teachers of diversity. Project EDUCATE (Educators of Diversity: Unified and Collaborative to Aspire Teacher Education) was implemented this past academic year with a mission to increase teachers of color in the northwest Ohio region with a dedicated and ongoing partnership and “grow your own program” with Washington Local Schools District (WLS) in Toledo, Ohio. Project EDUCATE proposes to advance racial inequity in education by providing BIPOC participants with appropriate social support(s), mentoring, specialized classroom pedagogy to include targeting issues of racial equality and social justice, and focus on the whole development of the student.

Components of Project EDUCATE II

Mentoring Institute

As mentoring plays a vital part in a student’s development, NWO is working with a mentoring expert to develop a mentoring model and program with specific content and curriculum designed for participating students of Project EDUCATE. The model will be part of a Mentoring Institute, in which recruited mentors (teachers, coaches, and community members) will be trained as mentors in accordance with the goals of Project EDUCATE.

NWO anticipates the mentoring model and its toolkit will be replicated throughout the region and the state for its unique platform of multi-tiered mentoring of different age groups (beginning in 6th grade through career placement) and its emphasis on the value of becoming an educator while assisting participants in achieving life and academic skills. See Appendix F for Sample Program.

Associates Degree Pathway

One of the goals of Project EDUCATE is to create a pathway for participating WLS students to earn a certificate (such as education paraprofessional) and the opportunity to earn College Credit Plus credits towards an Associate’s degree in Education or a Bachelor of Science in Education through BGSU. NWO is developing the pathway with BGSU and the WLS Teaching Professions Coordinator at WLS and it will include the unique and innovative aspects of the BGSU Life Design coursework. See Appendix G for Associates Degree Pathway Sample.

“These BGSU campus experiences really help expose our students to the possibilities for them once they graduate from HS. For many, this is their first-ever visit to a college campus which is a critical step in having them see themselves going to college.”
**Educators of Color Panel**

NWO co-hosted this event in partnership with the office of Diversity and Inclusion, and invited educators to share their lived experiences as an educator in NW Ohio. The goal was to further expose BGSU’s current pre-service teachers to the different biased experiences teachers encounter in the classroom to help students become better educators, support their future colleagues, and learn more about how they can support students of color in the classroom. During this panel, educators shared their lived experiences, both positive and negative, as an educator in northwest Ohio. NWO recruited several of the panelists through the Project EDUCATE program. Many WLS high school students enrolled in the Teaching Professions pathway and involved in Project EDUCATE attended.

**AmeriCorps/TOPSS Project**

($124,580 - August 2021-August 2022)

NWO collaborated on an AmeriCorps grant through Serve Ohio, called Project TOPSS (Toledo Partners for Student Success). TOPSS Partners included four non-profit organizations: Partners in Education, Junior Achievement, Tutor Smart, and Read for Literacy. Eleven Members served with these TOPSS partners, including seven BGSU students. The TOPSS project focused on educational initiatives and K-12 students with an emphasis on literacy tutoring and mentoring in academics as well as social-emotional aspects and college/career readiness conversations. NWO recruited all TOPSS Members, interviewed and placed them with the TOPSS Partners, and was also responsible for onboarding and training and communicating with them on a regular basis. The ongoing communication consisted of checking in to see how their service duties were going, offering professional growth trainings, and assisting with planning various (additional) group Service Events throughout the year. NWO also participated in weekly meetings and trainings with TOPSS Partners and ServeOhio/AmeriCorps personnel. See Appendix H for example of advertising.

**GP-EXTRA: Geoscience Education through Authentic Research**

(formally GeoPaths Project)

NWO has been collaborating with Dr. John Farver in the School of Earth, Environment, and Society in the College of Arts and Sciences. The GP-EXTRA grant involves partnering with Toledo Public Schools, in particular the Natural Science and Technology Center (NSTC) as well as BGSU undergraduates and draws upon the benefits of place-based education to connect students to their communities and service learning. A portion of this project was paused through the pandemic and will restart in the Fall 2022.

BGSU undergraduates will participate through a laboratory component of an introductory Geology class, Geology 1010 and will work with TPS students to determine sample sites and collect and characterize the samples using GLOBE and other protocols.
GRANTS SUBMITTED

U-CARE
(Formally CARMA – NSF IUSE - up to $300K up to 3 years)

Undergraduate Coral Aquarium Research Experience (U-CARE) is an Engaged Student Learning (ESL) Track, Level 1 (NSF-IUSE) Early-Stage/Exploratory Research proposal (Research Type #2) examining relationships among important constructs in education and learning to establish logical connections that may form the basis for future interventions or strategies to improve education outcomes. This proposal was in joint collaboration with Dr. Partin and Dr. Neves in the Biological Sciences department.
LIFESci
(NSF S-STEM - $1,500,000 over 5 years)

LIFESci (Leadership through Inquiry, Family, Engagement, & Scholarship) is an NSF S-STEM Research (Track 2: Design & Development) proposal that will address the calls for improved undergraduate biology education and retention in a novel and compelling fashion by incorporating AAAS conference recommendations along with contemporary findings in biology education, neuroscience, educational psychology, and the learning sciences. A cohort-based learning community will be created and tested to promote retention, research skills, and metacognition, among low-income, academically talented biology students with demonstrated financial need at BGSU. This proposal was a joint effort with Dean Sherrell and Dr. Partin in the College of Arts and Sciences.

Project PRAIRIE Plus
(NOAA: National Oceanic and Atmospheric Administration - $250,000-$500,000 for 2-5 years)

NWO/COSMOS proposed Project PRAIRIE PLUS: Prairies that expand Literacy, Understanding, and Science for Climate Resilience (P3) to Priority 1 of NOAA Environmental Literacy Program. NWO, with partners the Toledo Zoo, The GLOBE Program, iNaturalist, and local underserved school districts proposed to lead the P3 project to build climate resilience by increasing climate literacy (knowledge, skills, attitudes, and actions) of participating students and teachers using local school prairies as a context and primary climate resilience strategy. The goal of the project is to develop environmental literacy of youth grades three through eight and our local community using youth as leaders and ambassadors. P3 will aid in developing the expertise of educators while increasing public engagement and will offer rigorous and sustained PD to achieve project goals and expand, sustain, and disseminate an evidence-based, effective PD model. This proposal was prepared in collaboration with Dr. Jodi Haney, BGSU Professor Emeritus and Master GLOBE Trainer and Mitch Magdich, Curator of Education, The Toledo Zoo.
STEM Honors Diploma – Bowling Green High School

High school students can gain state recognition for exceeding Ohio’s graduation requirements through a STEM Honors Diploma. High-level coursework, college and career readiness tests and real-world experiential and laboratory experiences challenge students. NWO has assisted BGHS students by serving on the panel of external experts to hear their presented research and experiences and then score their work using a provided rubric as well as offer feedback.

Washington Local Schools Partnership

NWO has an ongoing partnership with the Washington Local Schools STEM/Curriculum Department. Academic year 2021-22 was the first year for a K-6 STEM Program in WLS and NWO assisted with consulting, professional development, and programming. The following list is the scope of work for this project. The project will expand to K-8 for the 2022-23 academic year

K-6 STEM Study Committee

• NWO will plan, attend, and/or facilitate monthly (after school) STEM department meetings in partnership with WLS curriculum personnel.

• NWO will make recommendations for high-quality STEM PD and assist in scheduling the PD.

• NWO will plan and implement STEM PD for STEM teachers.

• NWO will plan and implement STEM PD for K-6 classroom teachers.

• NWO will attend/present at WLS Principal’s meeting(s) when appropriate.

• NWO will create, organize and manage a shared Google Drive which will include STEM resources, research/scholarly articles, PD resources, websites, and other content.

• NWO will plan and schedule informal educators for student programming in STEM classrooms.

• NWO will assist with identifying, ordering and assembling materials for Picture Perfect STEM Kits for each STEM teacher.

• NWO will assist with planning and scheduling informal educators for student programming for weekly after-school Panther Camp sessions.

• NWO will facilitate in-person STEM field trip experiences for students.
Washington Local Schools Partnership cont.

Summer Camp
- NWO will recruit, communicate and work with local STEM expert Facilitators to schedule and plan STEM activities for all grade levels.
- NWO will provide WLS a list of needed materials for each facilitator/activity.
- NWO will work with facilitators to create invoices for payment (if necessary) to submit to WLS.
- NWO will attend additional camp planning meetings as needed.

Findlay City Schools Partnership
NWO continues to partner with Findlay City Schools, in particular Bigelow Hill Elementary School (an Ohio Designated STEAM School), to develop and implement teacher professional development and PBL Training around STEM programming.

Anthony Wayne Local Schools
NWO participates on the Waterville Primary STEAM school Advisory Board and provides technical assistance and feedback on the Ohio Department of Education application for STEAM school re-designation.

Toledo Public Schools
NWO sponsors students from Toledo Public Schools to attend Women in STEM and consistently explores collaboration on various grant projects and initiatives.
NWO continues to partner and collaborate with many BGSU departments and faculty members whether it be on grant projects, participation in our STEM events or through professional development opportunities. Our reach across campus remains a strength of our center.

The following faculty continue to participate in our campus STEM events on a regular basis by hosting groups of 6th-12th students in their lab spaces, presenting to groups of 6th-12th students or providing college students as volunteers: Laura Brubaker (Department of Public & Allied Health in the College of Health & Human Services, Jadwiga Carlson (Code4Her Program in the College of Arts & Science, Computer Science Department), Dr. Howard Cromwell (Biology of Affect & Motivation Lab in the J.P. Scott Center for Neuroscience, Mind & Behavior, College of Arts & Sciences), Dr. Nathan Hensley and Dr. John Farver (School of Earth, Environment & Society in the College of Arts & Sciences), Mary Kay Inkrott Hiser (Thompson Scholarship Program), Sarah Jurden (Academic Investment in Mathematics and Science), Dr. Jessica Kiss (Exercise Physiology Lab, School of Human Movement, Sport, & Leisure Studies in the College of Education and Human Development), Dr. Resmi Krishnankuttyrema (Mechatronics Engineering Technology Program and Women in Technology Organization in the College of Technology, Architecture, & Applied Engineering), Dr. Gabriel Matney (Math Camp in the College of Education & Human Development, School of Teaching and Learning), Dr. Cordula Mora (Center for Undergraduate Research & Scholarship), Dr. Paul Morris (Kids’ Tech University in the College of Arts & Sciences), Dr. Matt Partin (Marine Biology Lab in the College of Arts & Sciences, Biology Department), Dr. Vipa Phuntumart (Biological Science, College of Arts & Sciences), Lisa Schaller (Purple Hard Hats Organization in the Department of Construction Management, College of Technology, Architecture, & Applied Engineering), Dr. Jerry Schnapp and Dr. Donna Trautman (Visual Communication Technologies Program in the College of Technology, Architecture, & Applied Engineering), Karyn Smith (Department of Recreation and Wellness),

The following faculty/staff partner with NWO in our various grant engagements by providing professional experiences for grant participants, evaluative services, or project oversight: Beth Ash and Dylan Phillips (Project IMPACT/Virtual Simulations Training Center, College of Education & Human Development), Dr. Kate Brodeur (School of Teaching & Learning, College of Education and Human Development), Dr. Jacob Burgoon (School of Educational Foundations, Leadership and Policy in the College of Education and Human Development), Alexis Lankford (Division of Diversity & Belonging), Dr. Kristina LaVenia (School of Educational Foundations, Leadership and Policy, College of Education & Human Development), Jennifer McCary (Chief Diversity & Belonging Officer), Dr. MD Sarder (Department of Engineering Technologies in the College of Technology, Architecture, & Applied Engineering).
A. e-Newsletters Sample
B: Women in STEM Advertising
C: NWO STEM Collaborative Advertising
D: GLOBE Student Research Symposium Program
E: BioBlitz Advertising & Recognition
F: Project EDUCATE II Mentoring Institute Sample
G: Project EDUCATE II Associates Degree Pathway Sample
H: AmeriCorps/TOPSS Project Advertising
APPENDIX A: E-NEWSLETTER

Community STEM in the NEWS

Local Schools Receive EPA Recognition for Muskingum River Cleanup

Fifth and sixth grade students, who are members of the Hall-Parkers Intermediate School Environmental Club, spent a morning in March observing waterfowl along the shores of the Muskingum River in the Perryopolis area. At the same time, seventh grade students from Gavins Mill Elementary School were doing something else on the Muskingum River side. Over 150 pounds of trash was found and removed from the river. The students spent the morning doing a visual water quality test and discussing the role of the river in the local community. They observed the Muskingum River while the students from both schools took out to the shores of the Muskingum River to clean up trash from the river. The river was clean and the students wanted to capture the trash from the river before the end of the week. They predicted they would find more trash this week. Two years later, the students gathered at the riverbank and took out to the shores of the Muskingum River.

The STEM Middle School project was led by Bill Davis, 7th grade Science Teacher. The Hall-Parkers Intermediate School Environmental Club project was led by Tony Broshears, 8th grade Science teacher and club advisor.

The Great Lakes Environmental Protection Agency recognized them on their social media, the effort being done by the two schools.

STEM Opportunities

ESD of Lake Erie West STEM Lesson Development Workshop

The STEM Lesson Development Workshop will allow participants an opportunity to engage in STEM education through a collaborative writing effort. The STEM lesson creation will be a hands-on experience where attendees will use these sessions to modify lessons and curricula that they are already using or to develop new STEM activities to bring to their classrooms.

July 13, 2023 to July 27, 2023
http://www.edl.org/needsرار

International Women in Engineering Day

International Women in Engineering Day: The Scope of Gender Inequality

June 23RD is a day to celebrate women working in engineering and how far they do to break the world. This theme is “Innovation & Intelligence” and you can learn more about Innovating Women. The event celebrates the work of women in engineering.

NWO STEM Activity

Make and Color a Paper Airplane

This month’s activity is brought to you by NASA.

Product Type: Coloring and Fabric Play

Age: 5-12

Grade Levels: K-4

Bulleted: Flight and Astronomy

NASA offers free coloring pages that help you learn to make paper airplanes. You can find the activity on the NASA website.

Share Your Story

Youth Council is proud to announce the 2022-2023 STEM program and awards. The event will feature a networking session, STEM-themed games, and tours of STEM-related careers at our school and organizations. For more information, please visit our website at...

STEM Education Stories is a feature in upcoming newsletters.

For more information on STEM education, please visit...

Additional resources are available from the past.

Looking for past articles from our website?

Click here to view and download from our other websites.

NWO STEM Stories: 2022-2023
APPENDIX B: WOMEN IN STEM ADVERTISING

Recruitment Email - Attendee

Women in STEM
Science, Technology, Engineering, and Mathematics
Empowering young women in science, technology, engineering, and mathematics. Fostering confidence and inspiration.

Tuesday, April 12, 2022

This event is geared toward girls in grades 6, 7, & 8 who will be exposed to careers in the STEM fields through hands-on activities when they visit BGSU to participate in STEM educational workshops and sessions.

The goals for this event are to:
- Offer a highly engaging and interactive experience for students
- Expand students' awareness of potential STEM career paths
- Elevate excitement and confidence in female students for pursuing STEM courses/careers

Each school is limited to 20 students
Please register by March 25, 2022

2022 Schedule:
8:30 - 9:00 am - Schools arrive and Check-In
9:00 - 9:45 am - Keynote Presentation
9:55 - 10:40 am - (Session 1)
10:50 - 11:35 pm - (Session 2/Lunch A)
11:45 - 12:30 pm - (Session 3/Lunch B)
12:40 - 1:20 pm - (Session 4)
1:30 - 2:00 pm - Whole Group Session
2:00 - 2:30 pm - Adjourn

School Registration
Please click on the link below to register students.
https://forms.gle/AupjCrEv7GszRYZs8

Registration Deadline is March 25th, 2022
Cost per student: $30
Cost per teacher/chaperone: $30

Please be advised once BGSU reaches capacity, schools will be notified and placed on a waiting list.

For additional details visit the Women in STEM webpage at http://www.bgsu.edu/nwo/programs/women-in-stem.html

All who wish to attend Women in STEM are welcome regardless of their gender.

Sponsored in part by:
Recruitment Email - Presenter

We invite you to facilitate a hands-on session (45 minutes) for a group of 15-20 students to highlight a STEM topic and/or career in order to instill awareness, excitement, and passion for STEM disciplines!

The goal of the Women in STEM program at BGSU is to provide a rewarding experience for 6th - 8th-grade girls that connects STEM education to the real world and sparks an interest in pursuing STEM majors in high school and beyond and ultimately STEM careers.

Women in STEM provides young women with a positive experience at BGSU and offers them a variety of engaging hands-on activities that allow them the opportunity to learn and interact with a wide variety of successful STEM role models.

The day will begin with a keynote presentation followed by breakout sessions that provide hands-on, fun-filled, critical thinking/learning activities. Women in STEM will help young women recognize the wide array of options available in STEM fields, inspiring them to take classes in the STEM fields throughout their educational careers.

There will be groups of approximately 15-20 girls with adult supervision in each break-out session. Sessions should include innovative and creative hands-on activities that are fun-filled and engaging. We would like to foster a collaborative growth-minded atmosphere in the breakout sessions that gives students opportunities to interact with one another and YOU as a STEM academic/career role model.

We rely on the support of our presenters and volunteers like you in order to continue to provide this unique experience for this age group of girls. We are thrilled to host the 38th annual Women in STEM program at BGSU and look forward to your participation!
38th Annual Women in STEM program at BGSU!

Presentation Proposals are now being accepted for

Women in STEM

Tuesday, April 12, 2022

We invite you to facilitate a hands-on session (45 minutes) for a group of 15-20 students to highlight a STEM topic and/or career in order to instill awareness, excitement, and passion for STEM disciplines!

The goal of the Women in STEM program at BGSU is to provide a rewarding experience for 6th - 8th-grade girls that connects STEM education to the real world and sparks an interest in pursuing STEM majors in high school and beyond and ultimately STEM careers.

There will be groups of approximately 15-20 girls with adult supervision in each break-out session. Sessions should include innovative and creative hands-on activities that are fun-filled and engaging. We would like to foster a collaborative growth-minded atmosphere in the breakout sessions that gives students opportunities to interact with one another and YOU as a STEM academic/career role model.

We rely on the support of our presenters and volunteers like you in order to continue to provide this unique experience for this age group of girls. We are thrilled to host the 38th annual Women in STEM program at BGSU and look forward to your participation!

The deadline to register is March 16th, 2022

Please contact: nwo@bgsu.edu with any questions.

Registration link: https://forms.gle/YazqQ8r8j332CFDD9

If necessary, the planned in-person event may switch to a virtual format.

We provide classroom and/or lab space, AV equipment, and support.

All who wish to attend Women in STEM are welcome regardless of their gender.

Sponsored in part by:

2022 Schedule
9:55 - 10:40 AM (Session 1)
10:50 - 11:35 AM (Session 2/Lunch A)
11:45 - 12:30 PM (Session 3/Lunch B)
12:40 - 1:25 PM (Session 4)
Recruitment Email - Presenter

Please join us for our next 2021-2022 Northwest Ohio STEM Collaborative. This session is the third of a four-part series. You can still join this session even if you did not attend the first or second.

This series is facilitated through a partnership between the Educational Service Center of Lake Erie West and Northwest Ohio Center for Excellence in STEM Education at Bowling Green State University. All STEM enthusiasts are welcome and encouraged to attend!

The NWO STEM Collaborative aims to connect, share, learn and grow by networking within the local STEM community, while providing high-quality STEM opportunities for K-12 students in Northwest Ohio.

We look forward to collaborating with you!

A virtual recap of this session will be offered on Tuesday, February 15, 2022, from 3:45 – 4:45 via Zoom. Please contact Natalie Crotte if you have any questions about this virtual event. The Zoom link will be sent to those registered prior to the event.

Use the links below to register for the event you plan to attend.
You must register even if you attended Sessions 1 and/or 2.

Date: February 10, 2022
Time: 3:45 pm - 4:45 pm
Location: Educational Service Center of Lake Erie West
2275 Collingwood Blvd., T雪花, Ohio 43420

Contact: Please contact Natalie Crotte with any questions regarding the session. ncrotte@esclakeeriewest.org Please contact Lisa Peluso with any questions regarding registration. lpeluso@esclakeeriewest.org

Target Audience: STEM Teachers, Content teachers looking to incorporate STEM curriculum, Pre-service teachers, District Administrators, Business partners, Community members involved with or wanting to learn more about STEM education.

Cost: Free

Contact Hours: Participants will be issued a certificate for one contact hour.

Upcoming Sessions:
Session 4 - April 7, 2022

In-person Session February 10, 2022
Virtual Recap February 15, 2022

ESC of Lake Erie West is a partner of NWO
Who:
• Area STEM teachers
• Content teachers looking to incorporate STEM curriculum
• Pre-service teachers
• District administrators
• Business partners
• Community members involved with or wanting to know more about STEM education

When:
October 14, 2021 • 3:45-4:45 pm at Educational Service Center of Lake Erie West, 2275 Collingwood Blvd. Toledo, Ohio 43620

Agenda:
• STEM Activity
• Opening Remarks and Introductions
• Sharing of Resources
• Open Forum
• Interest Survey and Closing Remarks

This series is facilitated through a partnership between the Educational Service Center of Lake Erie West and the Northwest Ohio Center for Excellence in STEM Education at Bowling Green State University.

The NWO STEM Collaborative aims to connect, share, learn and grow knowledgeable networking within the local STEM community, while providing high-quality STEM opportunities for K-12 students and teachers in Northwest Ohio.

This session is the first of a four-part series for the 2021-2022 school year.
We look forward to collaborating with you!

Upcoming Sessions:
Session 2: December 9, 2021
Session 3: February 10, 2022
Session 4: April 7, 2022
APPENDIX D: GLOBE STUDENT RESEARCH SYMPOSIUM PROGRAM

About GLOBE:
The Global Learning and Observations to Benefit the Environment (GLOBE) Program is a worldwide hands-on, science and education program focusing on the environment, now active in over 120 countries worldwide. It works to promote the teaching and learning of science, enhance environmental literacy and stewardship, and promote scientific discovery. Students and teachers collect data and perform research in collaboration with scientists from numerous international agencies, and their work is made accessible through the GLOBE website.

About Project PRAIRIE:
(Prairies that Invigorate Inquiry Learning), A Wild Toledo Prairie Initiative
Project PRAIRIE extends the Wild Toledo prairie initiative into local classrooms by utilizing the native prairie installations as living labs. It is an inquiry-based education program that trains students and their teachers to use native prairie habitats for citizen science projects that contribute to a larger body of global research to make a difference in the natural world.
Toledo Zoo conservation staff installs native prairies on the property of participating schools to make a difference in the natural world. Toledo Zoo conservation staff installs native prairies on the property of participating schools to make a difference in the natural world.

Prairie habitats for citizen science projects that contribute to a larger body of global research to make a difference in the natural world.

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Prairie habitats for citizen science projects that contribute to a larger body of global research to make a difference in the natural world.

An agenda for the GLOBE Student Research Symposium is provided, including the schedule of events, locations, and topics for presentations. The schedule is as follows:

10:00 AM Welcome, Healthy Snack, & Keynote: The Importance of School Prairies and Management Practices to Keep our Prairies Healthy by Jacob Schoen, The Toledo Zoo
10:30 AM Poster Session A - 5 posters (non-presenter students and STEM experts conduct peer review using GLOBE form)
11:00 AM Poster Session B - 4 posters (non-presenter students and STEM experts conduct peer review using GLOBE form)
11:30 AM Poster Session C - 4 posters (non-presenter students and STEM experts conduct peer review using GLOBE form)
12:00 PM Box Lunches
12:30 PM Peer Review & Investigating The Aquarium’s Ideal Environment (Dorr Elementary and HPI students rotate to each activity every 30 minutes)
1:30 PM Poster Session A - 5 posters (non-presenter students and STEM experts conduct peer review using GLOBE form)
1:30 PM Closure: Students pick up GLOBE notebook and return to bus

The student research encompasses a variety of topics, including environmental science, prairie ecology, and science education. The presentations are organized into groups, with each group focusing on a specific topic or area of study. Participants include students, teachers, and STEM experts. The event is hosted by BGU, Xcite Learning, and The GLOBE Program in partnership with The Toledo Zoo and Aquarium.

GLOBE STUDENT RESEARCH SYMPOSIUM
Monday, May 23, 2022
Toledo Zoo Broadway Pavilion
10 AM - 1:30 PM

Hosted by: BGU, Xcite Learning, & The GLOBE Program
In Partnership with The Toledo Zoo and Aquarium
Event Organizer: Jodi Haney, BGU and Xcite Learning

STUDENT PROJECTS, PRESENTERS, AND PRESENTATION GROUPS

DORR ELEMENTARY 4TH GRADE STUDENT PRESENTATIONS
Teacher: Kristy DiSalle

<table>
<thead>
<tr>
<th>Names</th>
<th>Topic</th>
<th>Presentation Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selena Alarcon, Mason Norris, Graeme Whitacre</td>
<td>Soil Temperature</td>
<td>A</td>
</tr>
<tr>
<td>Alivia Brown, Gabe Caudill, NyJai Davis</td>
<td>Soil Moisture</td>
<td>A</td>
</tr>
<tr>
<td>Katelyn Duke, Ryan Bryant, Evan Millsaps, Rue Warner</td>
<td>Soil Temperature</td>
<td>B</td>
</tr>
<tr>
<td>Gabriella Old, Zayla Miller, Myson Davis</td>
<td>Plant Diversity</td>
<td>B</td>
</tr>
<tr>
<td>Breanna Polcyn, Nathan Brake, Ava Rechtine</td>
<td>Air Temperature</td>
<td>C</td>
</tr>
<tr>
<td>Landon Bellman, Adalyn Brazzi, Paisley Ricard</td>
<td>Animal Diversity</td>
<td>C</td>
</tr>
</tbody>
</table>

HULL PRAIRIE INTERMEDIATE
Teacher: Amy Boros

<table>
<thead>
<tr>
<th>Names</th>
<th>Topic</th>
<th>Presentation Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jocelyn DeLauter, Emily Manges, Elise Segovia</td>
<td>Air temperature, Animal Frequency</td>
<td>A</td>
</tr>
<tr>
<td>Zachary Krueger, Brady Haye, Varmith Sadhu</td>
<td>Surface Temperature</td>
<td>A</td>
</tr>
<tr>
<td>Lucas McClellan, Evan Bowe, Lake McIntyre</td>
<td>Surface Temperature</td>
<td>A</td>
</tr>
<tr>
<td>Kenzie Frye, Jade Saxton, Emma Strunk</td>
<td>Plant Diversity</td>
<td>B</td>
</tr>
<tr>
<td>Nathan Plost, Aiden Wilson, Brayden Bostater, Carter Weiss</td>
<td>Soil Moisture</td>
<td>B</td>
</tr>
<tr>
<td>Madison Crowley, Oliveria Freeman</td>
<td>Surface Temperature</td>
<td>C</td>
</tr>
<tr>
<td>Lily Johnson, Maura Tehan, Megan Bucknagle, Quinn Berucha</td>
<td>Surface Temperature</td>
<td>C</td>
</tr>
</tbody>
</table>
PRAIRIE PARTNERSHIP
NWO has partnered with the Toledo Zoo and Aquarium and their Wild Toledo Project PRAIRIE: PRAiries that InvigoRate Inquiry LEarning initiative, an inquiry-based education program that prepares students and their teachers to learn about native prairie habitats found on an outdoor classroom built on their own school’s property.

JOIN THE INITIATIVE
The hope is that more schools in the region of northwest Ohio will become interested in this initiative that engages students to engage in experiential inquiry and citizen science activities to study prairie habitats, develop a stronger connection to the local ecology, contribute to existing knowledge through data collection, and view themselves as part of the solution to conservation-related problems and above all, climate resilience.

PRAIRIE INSTALLATION
Toledo Zoo staff will install urban or rural prairies on school property in the spring while providing curricula and support for teachers and students to learn the basic skills of taking care of their prairies. Students will be engaged and prepared to become prairie “ambassadors” and will ultimately participate in a “BioBlitz” in the fall, an event that focuses on finding and identifying as many species as possible in a specific area over a short period of time.

BIOBLITZ BG
In the fall of 2021, NWO, the Toledo Zoo and Bowling Green City Schools held the first annual “BioBlitz BG” at Wintergarden Park, with support from the BGSU College of Education and Human Development, Lubrizol, and the Bowling Green City Parks and Recreation Department.

The goals for this event were simple: ENGAGE•LEARN•ACT! The participating students from Crim Elementary engaged in exploration and investigation in nature and learned about both living and nonliving components of the local prairie ecosystem and what they and their families can proactively do to maintain its health. Finally, students were inspired to take action to help protect and preserve both local prairies and planet Earth.

For more information about BioBlitz BG, please visit: https://www.bgsu.edu/nwo/programs/bioblitz-bg.html.

TO INSTALL A SCHOOL PRAIRIE LOCALLY
For more information on the Toledo Zoo Wild Toledo Project PRAIRIE initiative, please see: https://www.toledozoo.org/wildtoledo.
BioBlitz Recognition

BioBlitz

By JAN LARSON MCLAUGHLIN BG Independent News

Armed with an app, bug spray and youthful curiosity, Bowling Green fifth graders became "citizen scientists" for the day Wednesday. They roamed the trails of the Wintergarden Park prairie, finding different plant species and sending their data to scientists around the world. In the first few minutes, they identified bushy aster, shiny sumac, common wrinkle leaf goldenrod, and poison ivy. "Anyone can be a scientist," Mitch Maglich, from the Toledo Zoo, told the students. "It's not just someone in a lab with crazy hair and a nerdy pocket protector." Fifth grader Mason Naus uses app to identify a plant. Crim fifth grader Mason Naus was inspired as he catalogued plant life in the prairie. "I think it's really interesting," he said. "There's some interesting plant life and bug life here. I think it's cool that I get to help out scientists and maybe make some new discoveries." It just doesn't get much better than that for Emillo Duran, director of the Northwest Ohio Center of Excellence in STEM Education. The BioBlitz at Wintergarden Park was a team effort by Bowling Green Parks and Recreation, Bowling Green City Schools, BGSU Science and Environmental Education, and BGSU Early and Inclusive Childhood Education undergraduates. The event was part of the national Parks for Pollinators campaign, which is aimed at raising public awareness about the importance of pollinators and positioning parks as national leaders in advancing pollinator health. During the last 30 years, the U.S. has seen a steady decline of pollinators - such as bees, bats and butterflies. Fifth graders were matched up with BGSU students for the BioBlitz. Before they set off into the prairie, the Crim Elementary fifth graders were paired up with college students studying to be future teachers. They were given a pep talk by Duran. "You should be smiling underneath those masks," Duran said. "You are going to be learning and having fun - what a concept." But Duran also stressed the importance of their roles as citizen scientists. "Whatever you do today is going to matter," he said. Duran talked about the impacts of climate change, such as the frequent fires in the western U.S., and the shrinking habitat for polar bears. "It is very important what you are going to do today," Duran said. "We're running out of time." The BioBlitz is an ideal way to acquaint students with nature, Maglich said. "We're going to be looking at every living thing in that prairie," he said. "And making that information available to scientists all over the world." Jodi Haney, professor emeritus of Science and Environmental Education at BGSU, told the students they were about to become biologists and botanists. "Let's get busy doing what we need to do," Haney said. Students send information on the plants they identified. The role of citizen scientists is to gather information that can be used to correct the harm to the world caused by humans, Duran said before the students arrived. "It's where regular individuals are going to collect data and work with scientists all over the world," he said. "It's little steps to make the world better for everyone." Using the iNaturalist app, students identified plants and bugs. The student-collected data was then uploaded to the iNaturalist platform, a learning application used for scientific data collection and conservation. Students also observed clouds and measured the temperature of the air, surface and soil to compare prairie habitats for the Global Learning and Observation of the Environment program. The data was uploaded to share with scientists who use GLOBE data to better monitor the earth. And students constructed their own bee houses, out of tin cans, cardboard toilet paper tubes and straws. The houses were built to provide native bees with homes to enhance pollination in natural habitats. Students made bee houses out of food cans, paper rolls and straws. The "hands-on minds-on" approach to learning is the ideal way to get students involved, Duran said. Fifth grader Riley Morris was busy snapping photos of plants and a mystery bug that was too quick for the camera. "I think it's cool, just looking at the stuff," she said. She expressed one negative - "I don't like mosquitoes." The BioBlitz was a learning experience for the elementary students and the future educators. "We want both groups to engage with science and nature," Haney said. "We want them to feel a little more empathy to act." And after more than a year of not being able to hold school programs due to COVID, hosting busloads of children at the BioBlitz was a welcome change. "The parks are thrilled that this is happening - to have kids educated at Wintergarden again," said BG's Natural Resources Coordinator Chris Ciejewicz. Students walk through prairie area for BioBlitz.
BOWLING GREEN, Ohio — With support from community organizations, Bowling Green State University’s STEM team got an opportunity assisting fifth graders from Bowling Green City Schools with studies and preservation of natural habitats.

Students gathered Wednesday morning at Wintergarden Park for the first “BioBlitz BG” session, one of several happening across the U.S. this week.

Each student tallied the number of plants and animals they found in the park. Their findings were uploaded to iNaturalist, a platform for conservation data.

They also built their own bee houses and participated in the Global Learning and Observation of the Environment program by observing clouds and measuring air, surface and soil temperatures in the prairies. This data will be utilized by scientists to monitor earth.
Jodi Haney, a Bowling Green State University professor, exhorts fifth graders to ‘engage, learn, act’ before they take some temperature readings while learning about nature at Wintergarden Park in Bowling Green. Education students from the university aided the youngsters Wednesday in conducting the first-ever ‘BioBlitz BG’.

BGSU senior Sheana Jones, left, helps fifth grader Amara Jones (no relation) make a bee hive, one of several activities as the students observed nature as citizen scientists.

BGSU senior Marisa Fauss, left, and Bowling Green fifth grader Eliana Rush use the app iNaturalist to identify a plant and share that information with scientists worldwide.
Mentoring brings benefits to the mentee and the mentor, as well as the Project EDUCATE, as illustrated below.

MENTEE
- Gain insight, guidance, and support from experienced Mentor
- Strengthen a big picture view of teacher/educator
- Increase knowledge of the education system.
- Receive focused and unique leadership development opportunities

MENTOR
- Gain access to alternative perspectives and experiences
- Become recognized as a developer of talent
- Expand diversity of thought, style, personality, and culture
- Receive the opportunity to rejuvenate and create a legacy

Project EDUCATE
- Strengthen leadership development and engagement
- Increase recruitment, retention, and engagement of future educator.
- Provide succession planning for schools
- Improve the culture of mentoring in education system

Even though informal mentoring exists, this Mentoring Toolkit focuses on helping Project EDUCATE develop a formal mentoring program. Formal mentoring programs are structured at the organizational level with specific purposes or goals for the program. Mentees are formally paired with mentors and the mentor-mentee pairs identify specific goals for their relationships.

There are various types of formal mentoring programs, including traditional one-on-one mentoring as well as mentoring circles, also called group mentoring.

Traditional one-on-one mentoring is a common model in which one mentor is matched with one mentee. This model allows both mentor and mentee the opportunity to develop a personal relationship and provides specific, individualized learning opportunities for the mentee. This model can be difficult if there are more mentees than available mentors. If this is the case for your project, consider group or speed mentoring as an alternative.

Group mentoring consists of one mentor who is paired with several mentees at one time. The number of mentees varies. The group meets together to discuss various topics. This type of mentoring can include peer mentoring because both the mentor and the peers help one another learn and develop skills and knowledge. Group mentoring can create challenges in scheduling meetings. It also lacks the personal relationship that some people prefer in mentoring. On the other hand, with more people involved group mentoring can offer ease of conversation and robust discussion.

Speed Mentoring helps everyone connects in a new, after speed dating, speed mentoring is a newer concept, efficient networking, and the methodical pursuit of a method for our participants to seek out mentoring.

Developing a Mentoring Program

Once your group or organization has decided that a mentoring program can play an important role in your projects overall engagement and development program, we recommend that you start with a small pilot mentoring program, so that you can determine what works and make changes as needed before rolling out the program to a larger number of individuals. It will also allow you an opportunity to better embed mentoring into your project.

There are four stages in developing a mentoring program and in each stage several steps.

<table>
<thead>
<tr>
<th>STAGE 1</th>
<th>STAGE 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify goals for your mentoring program</td>
<td>Recruit participants</td>
</tr>
<tr>
<td>Define roles and identify individuals to fill those roles</td>
<td>Select participants</td>
</tr>
<tr>
<td>Develop a communication plan</td>
<td>Match mentors and mentees</td>
</tr>
<tr>
<td>Develop mentoring program description</td>
<td></td>
</tr>
<tr>
<td>Clearly define eligibility for mentors and mentees</td>
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</table>

<table>
<thead>
<tr>
<th>STAGE 4</th>
<th>STAGE 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluate participant satisfaction and outcomes</td>
<td>Launch the program</td>
</tr>
<tr>
<td>Evaluate your group experience and operational capacity</td>
<td>Provide training</td>
</tr>
<tr>
<td>Analyze lessons learned and move to the next phase</td>
<td>Troubleshoot to resolve differences</td>
</tr>
<tr>
<td></td>
<td>Provide other support throughout the program</td>
</tr>
</tbody>
</table>
APPENDIX G: PROJECT EDUCATE II ASSOCIATES DEGREE PATHWAY SAMPLE

**Ready, Set, Go TO COLLEGE**

**A COLLEGE PREP CHECKLIST FOR PROJECT EDUCATE**

**Whitmer High School (Jodie Tucker-JT) Proposal**

### FRESHMAN AT WHITMER

<table>
<thead>
<tr>
<th>Class</th>
<th>Option</th>
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</thead>
<tbody>
<tr>
<td>English 9</td>
<td></td>
</tr>
<tr>
<td>Algebra I (or higher)</td>
<td></td>
</tr>
<tr>
<td>World History</td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
</tr>
<tr>
<td>Health</td>
<td></td>
</tr>
<tr>
<td>Financial Literacy</td>
<td>Elective: May take Intro to Teaching Professions</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

### SOPHOMORE AT WHITMER

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<th>Option</th>
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<tbody>
<tr>
<td>English 10</td>
<td></td>
</tr>
<tr>
<td>Geometry (or higher)</td>
<td></td>
</tr>
<tr>
<td>American History</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>If student did not take during their 9th grade year: Intro to Teaching Professions</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

### JUNIOR AT WHITMER

**Class**

**Option**

- English: UT CCP College Comp I @WHS (3) (OR only one CCP course if the student elected to take one CCP English course during their junior year.)
- Math: UT CCP Stats @ WHS (3) (OR only one CCP course if the student elected to take one CCP Math course during their junior year.)
- CCP w JT EDTL 2300 Intro to Inclusive Education (2)
- CCP Life Design (1)
- May take 2 CCP courses or 2 year long or 4 semester courses.

### JUNIOR YEAR SUMMER SCHOOL

**Class**

**Option**

- English: UT CCP College Comp II @WHS (3)
- Math: UT CCP College Algebra @ WHS (3)
- CCP w JT EDTL 2010 Intro to Education (3)

### SENIOR AT WHITMER

**Class**

**Option**

- English: UT CCP College Comp I @WHS (3)
- Math: UT CCP College Algebra @ WHS (3)

### SENIOR YEAR SUMMER SCHOOL

**Class**

**Option**

- CCP Math 2120 Math for Early Childhood Teachers (Replace with a Math course during senior year? per BGSU (3))
- CCP Elective choice BGSU online (3-4)

### PATHWAY YEAR AT BGSU

**Fall**

- EDTL 1110 - 3: Continuity of Early Childhood Development
- EIEC 2130 - 3: Foundations of Inclusive Early Childhood Education
- EIEC 2131 - 3: Intro to Young Children-Exceptional Needs
- EDTL 2020 - 3: Educational Psychology
- EIEC 2380 - 1: Inclusive Perspectives on EC Classrooms
- EIEC 2340 - 3: Communicative Development of Young Children
- 16 Credits

**Spring**

- ENG 3420 - 3: Literacy and Young Children
- EIEC 2130 - 3: Creativity & Expressive Arts for EC
- EICE 2210 - 3: Cultural & Linguistic Diversity in ECE
- EIEC 2220 - 3: Working with Families of Young Children - (replace with HDFS 19030 Lifespan Human Development?)
- EIEC 2220 - 3: Infants & Toddlers in Natural Environment
- EIEC 2440 - 3: Infant & Toddler Curriculum & Teaching
- 16 Credits

**16 Credits**
WHAT’S AT YOUR CORE?

DO YOU LOVE KIDS?

UNIQUE SERVICE OPPORTUNITY POSITION
• Serve as an education advocate
• Gain high-quality, professional experience
• Earn a living allowance
• Receive an education award/scholarship
• Receive healthcare (full-time positions only)
• Receive childcare
• Flexible and hybrid work environment

NECESSARY SKILLS
• Clear communicator
• Service-minded
• Leadership abilities
• Energetic and Focused
• Tech-savvy (G-Suite, Microsoft Suite)
• Organized
• Self-starter
• Willingness to learn
• Creative contributor

ACTIVITIES INCLUDE
• Working with students during and after school
• Mentoring students
• Tutoring students
• Engaging with teachers
• Working with volunteers
• Assisting with educational events

MAKE A DIFFERENCE – YOUR SURROUNDING TOLEDO COMMUNITY NEEDS YOU

Contact Jenna Pollock at jpolloc@bgsu.edu for more information!

AmeriCorps is the federal agency connecting individuals and organizations through service and volunteering to tackle the nation’s most pressing challenges.