

Report of Partnership Office Activity 2019

PRIORITY #1 – Diversity in STEM Pathways

Activity	Description
Women in Science, Technology, Engineering, and Math (WiSTEM)	Facilitate student group at ETHS with NU mentors to support young women in STEM courses and career pathways. Highlights include WiSTEM students participating in design challenges, STEM Shadow Days, HerStory at the Museum of Science and Industry, NU's Engineering Career Day for Girls, and hosting guest speaker panels. WiSTEM is a registered chapter of the Society of Women Engineers (SWE) Next program.
NSF CAREER Grant – Civil & Environmental Engineering	Funded through a grant from the National Science Foundation, NU Professor Guiseppe Buscarnera and his team serve as guest speakers in ETHS Geoscience and Civil Engineering Courses. Buscarnera hosts area teachers for a 2-day professional development workshop in the summer.
NSF CAREER Grant – Biomedical Engineering	Through an NSF CAREER Grant with Professor Evan Scott, three programs were implemented: Program for Parents, Classroom Guest Speakers, and Mentorship. Together with the National Society of Black Engineers, ETHS Engineering, and E-BAN, these programs aim to bring engineering career awareness to ETHS Students of Color.
Baxter Center for Science Education	Northwestern and Baxter co-sponsor the BCSE that provides teacher professional development, laboratory loaner equipment, and student events. ETHS teachers have participated in the BCSE Baxter Symposium and PD workshops. ETHS classes attend the annual Biotech Day at Northwestern.
NGSS Teacher Professional Development	Northwestern University Professor Brian Reiser is one of the key architects of the Next Generation Science Standards. Reiser leads a professional development series to assist teachers with redesigning curriculum to align with the new standards. ETHS teachers assist as master teachers in these workshops.
EvanSTEM Committee	The NU/ETHS Partnership Office is a key component of the EvanSTEM Committee to map and expand the STEM Ecosystem in Evanston, with a particular focus on providing access and opportunity to underserved populations of students. ETHS teachers and students led workshops at the annual STEM Fest for D65 students.
STEM Shadow Days	ETHS students shadow one-on-one with graduate students in various STEM Labs.
Feinberg Day	ETHS Anatomy and Health Science classes attend an annual event at Feinberg School of Medicine. The day includes time in the Anatomy Lab with medical students, and Biomechanics Day lab tours at the Shirley Ryan Ability Lab.
Geophysics Collaboration	Northwestern Geophysics Professor Suzan Van Der Lee guest lectures in ETHS Science classes, hosts female students in her lab annually, and installed 2 geo-monitoring stations at ETHS with seismometers connected to the global data network.
Vex Robotics Support	McCormick School of Engineering supports ETHS Robotics with volunteers working the competition held at the school. Mechanical Engineering Professor Michael Peshkin funded ETHS Robotics for the 2018-19 school year through a donation of \$17,000 worth of supplies and equipment from a grant from the National Science Foundation.
Exoplanet Symposium	Northwestern Physics and Astronomy Professor Yoram Lithwick hosts an annual Exoplanet Symposium for Chicago Area teachers and students, including ETHS Astrophysics students. This work is funded through a grant from the National Science Foundation.
Oakton Futures Unlimited Day	ETHS teachers and students from WiSTEM, SHPE Jr, NSBE Jr, and Project Lead the Way assisted in facilitating workshops for the annual Oakton Futures Unlimited Day for all 400+ eighth grade girls in District 65.

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STEM Summit	ETHS Teachers led and participated in workshops at the annual STEM Summit hosted by NU's Office of Community Education Partnerships (OCEP).
Summer Opportunities in STEM	The Partnership Office curates a list of summer opportunities in STEM, including internships, camps, courses, and research programs. The list has a particular focus on opportunities for underrepresented groups in STEM and includes programs across the country beyond those available at Northwestern. New Northwestern additions this year included the Neuroscience and Communications one week residential program offered free for ETHS students.
Summer Lab Internships	Available to select ETHS Juniors and Seniors, Northwestern labs offer multiple opportunities for summer lab internships each summer. Notable this year include 2 ETHS students who were awarded a paid apprenticeship in the Center for Regenerative Medicine and 2 ETHS students interning in Psychology who had their work published in Psychology Today.
Society for Hispanic Professional Engineers, Jr. Chapter	NU SHPE provides coaches/mentors for the Jr. Chapter at ETHS.
National Society for Black Engineers, Jr. Chapter	NU NSBE facilitates the Junior Chapter at ETHS with ETHS teachers. The Northwestern undergrads provide tutoring and mentorship for all ETHS members. Northwestern NSBE students also provide support and mentorship for the ETHS NSBE Robotics Team.
Dinner and a Movie – Dream Big	ETHS WiSTEM and NU SWE students hosted D65 middle school girls and their parents on campus for a screening of the movie Dream Big. Dinner, activities, and discussion were included for the students and families.
Digital Youth Network	ETHS Alumni are employed through the Digital Youth Network (DYN) program with built-in skill development, training, and certification opportunities offered to develop post-secondary career pathways.
Digital Divas	Digital Divas is an out-of-school learning environment for D65 girls providing mentorship and computer coding skill development. ETHS students from WiSTEM are employed as mentors for the D65 students, while also receiving mentorship and training from the NU Divas Team.
Career Day for Girls	Northwestern Chapter of Society for Women Engineers hosts a Career Day for Girls annually for grades 6-12.
Girls Empowered by Engineering, Math, and Science (GEMS)	ETHS students participate in leading activities and events with D65 Middle School girls through GEMS, an NU student group dedicated to outreach.
Project Lead the Way Engineering Design & Development Course	Northwestern students and faculty provide support throughout the year for the PLTW Capstone Course, Engineering Design & Development. Connections include the MMM Program (Kellogg & Segal Design Institute), the Masters in Product Development (MPD), and the Manufacturing and Design Engineering (MaDE).
Geometry in Construction Partnerships	ETHS GiC courses partner with Northwestern through hosting service build days with NU Athletics each spring.
Women in Computing	Northwestern Women in Computing supports two ETHS student organizations: Girls Who Code and She is Code. They host annual "hack-a-thon" events at NU for middle and high school girls.
Forensics Collaboration	ETHS Forensics Courses collaborate with Northwestern through attending professional development workshops with the Baxter Center for Science Education, and hosting guest speakers from the Center for Wrongful Convictions and the Medill Justice Project.

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Center for Interdisciplinary Education and Research in Astrophysics (NU CIERA)	Through Northwestern's CIERA group, the ETHS Astronomy and Astrophysics courses receive support and collaboration including joint events and professional development.
Massive Open Online Courses (MOOC)	Through Northwestern's Massive Open Online Courses (MOOC), ETHS students can participate in college courses. Some MOOCs such as Healthcare 101, specifically are designed for high school students.
Computational Thinking in STEM (CT-STEM)	This Northwestern Research and Design project involves ETHS STEM teachers in designing and implementing curriculum to integrate computational thinking across disciplines.
Math Circles	Northwestern's Math Department hosts monthly Saturday workshops for Evanston middle and high school students, exploring topics in Mathematics.
Grant Outreach Ideation	Each year, the Partnership Office collaborates with Northwestern faculty in designing meaningful outreach strategies that align with D202 goals and ETHS programs for grant applications. These include grants in Computer Science, Psychology, Learning Sciences, Astrophysics, Mathematics, Geophysics, Earth and Atmospheric Science, the Center for Regenerative Medicine, Biomedical, Civil and Environmental Engineering.

PRIORITY #2 – STEAM: Integrating Arts and Design into STEM

Activity	Description
STEAM Design Thinking and Innovation Course	Designed in collaboration with Northwestern, ETHS' STEAM Design Thinking and Innovation Course receives ongoing support from Northwestern. The course is modeled after interdisciplinary courses and programs at Northwestern that promote arts, design, and creativity throughout the STEM disciplines. Northwestern collaboration comes from the Office of Undergraduate Research, the <i>Ready, Set, Go</i> Program for Graduate Student Communication, the School of Education & Social Policy, and Segal Design Institute.
Scientific Images Contest	Science in Society hosts their Gallery Opening at ETHS. Both Physics and Visual Arts student work from ETHS is included in the exhibition. STEM and Fine Arts classes visit and engage with researchers/artists. ETHS student work then travels with the Northwestern exhibit throughout the Chicago area.
Illinois Science & Technology Institute (ISTI)	The IL Science & Technology Institute collaborates annually with the Partnership Office to provide connections and support for area schools, implementing STEM Challenges with corporate/industry partners. Through ISTI, ETHS has partnered with Takeda Pharmaceuticals, Argonne National Laboratory, and Uptake.org Data Visualizations.
Young People's Race, Power, and Technology Project (YRP-Tech)	Northwestern Computer Science Professor Sepehr Vakil launched YRP-Tech to bring together students from Northwestern, Evanston, and Sullivan High School in Chicago. Through participatory action research, students investigate and interrogate the impact of technology in communities of color. Their work continues through the school year to produce a series of short documentary film segments to be used for engaging community conversations examining the intersection of race, power, and technology.
Innovation Tour	Ron Guerrier, Illinois Secretary of Innovation and Technology, was hosted for a special visit to ETHS, his alma mater. Secretary Guerrier requested this tour to engage with administrators, staff, and students demonstrating innovative 21 st century learning environments including Geometry in Construction, Algebra in Entrepreneurship, and STEAM Design Thinking and Innovation.
NSF Grant – Astrophysics	Professor Wen Fai Fong is working with ETHS teachers and students to create a series of short educational films for the Planetarium. The films will explain cutting-edge gravitational wave and gamma radiation research to the public. Films are designed for a series of Planetarium viewing events for the Northwestern, ETHS, and Evanston Community.

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STEAM Professional Development Workshops	ETHS teachers take part in an annual Design Thinking and STEAM teacher professional development workshop lead by faculty from Northwestern's Segal Design Institute. This workshop was originally designed for Evanston teachers, but now includes educators from around the country.
STEAM Research and Design Summer Program	Students participate in a free summer program at Northwestern integrating arts and design into STEM research and design projects with Microsoft, Argonne National Labs, and TGG Group Chicago.
Center for Bionic Medicine	Graduate students from Northwestern's Center for Bionic Medicine at Shirley Ryan Ability Lab facilitated learning workshops for students in ETHS Engineering classes, the WiSTEM student group, and summer career exploration student programs.
IL Council of Teachers of Mathematics (ICTM) Presentation	ETHS Math and CTE teachers co-presented with the NU Partnership Coordinator at the annual ICTM Conference on the creation, pedagogy, and success of transdisciplinary courses.
Design for America Leadership Studio	Hundreds of college students from around the country attend Northwestern's annual Design for America Leadership Studio. ETHS teachers and students participate in the conference as leaders, facilitators, and "user groups" collaborating with the university student teams.
Northwestern Volunteers in STEAM Courses	Northwestern students, staff, and faculty have volunteered in a variety of events to provide feedback, support, and critique in a variety of ways. This includes providing user feedback for the design of Biology Games and Writing Workshops.

PRIORITY #3 – College Access and Career Preparation

Activity	Description
Northwestern Academy Evanston	Northwestern Academy Evanston provides four years of college and career advising and support for high school students from low-income and first generation families. Funding support for the program covers expenses such as summer college access programming, campus visits, and application expenses.
College Prep Program	Students enrolled in ETHS' AVID program, Northwestern Academy Evanston, Y.O.U., YAchievers, and Evanston Scholars can attend Northwestern's College Preparation Program with scholarships that cover full tuition, books, and fees.
AVID Senior College Experience	Seniors visit Northwestern for a field day event to sit in on NU courses and investigate campus resources and support systems designed for student success. Northwestern Graduate students enrolled in Searle's Certificate Program for Teaching and Learning design and teach an eight-week course at ETHS to AVID seniors as a 'mock' college experience.
Community-Based Research Methods and Educational Justice (CBRM-Educational Justice) Hybrid Course	This Northwestern course from the School of Education and Social Policy was co-developed by Professors Shirin Vossoughi and ETHS teachers Corey Winchester and TaRhonda Woods through funding from an NU Alumnae grant promoting innovation in education. The hybrid course provides an opportunity for NU and ETHS students to learn together as colleagues in the class centered on Educational Justice.
Kellogg Connections	This mentorship program connects Kellogg graduate students with ETHS in an after school program with mini-MBA workshops. The program includes a site visit to Northwestern and participation in Kellogg's annual High School Case Competition.

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Collaboration with Author Pamela Samuels Young	Northwestern Alumnus Pamela Samuels Young is an award winning writer of young adult fiction. The Partnership Office collaborated with the North Shore Links organization to support ETHS engagement with Young for students, teachers, and the community. NU donated 100 books for student use in reading classrooms and the Books R Us Club.
Emerge Leadership Program	The ETHS Community Service Office coordinates this program with Northwestern student volunteers to teach leadership skills through a variety of workshops.
Reading in the Social Context	Northwestern Professor Mesmin Destin and his students visit this ETHS summer school course to talk with students about their identity as readers with diverse interests.
Evanston Scholars	The Partnership Office provides logistic support, resources, and connections to NU student volunteers for this college access mentorship program.
AVID Undergraduate Interns	Northwestern students intern at ETHS in the AVID program providing tutoring.
NU Mentors for Latino Quest	Northwestern students from Omega Delta Phi Fraternity Inc. and other LatinX NU Students mentor ETHS high school students. They have had presentations for students on college life, applying to college, and choosing a major.
National High School Institute	Also known as the "Cherubs," this summer program provides students the opportunity to enroll in debate, theater, and film production. Northwestern provides scholarship funds dedicated to high-achieving students ETHS students from low-income households.
Medill Speaker Series	This annual speaker series brings award winning journalism faculty from Medill to ETHS Journalism classes for career Q&A sessions. Visitors in 2019 include Medill Dean Charles Whitaker and Professor Peter Slevin.
My Future Study	The "My Future" Study, a five year project led by Northwestern Professor Mesmin Destin, is funded by the William T. Grant Foundation and the Russell Sage Foundation. The study has three main goals: to connect high school students with college student mentors, to improve student motivation and achievement, and to reduce student stress and improve physical health and well-being.
Kellogg Cares Day	This annual Kellogg event brings Northwestern students and faculty to ETHS for career exploration conversations.
Northwestern Tutors	This student holdings company is well regarded in the Evanston Community as a tutoring resource for academic support and test preparation. In response to community need, NU Tutors has begun offering a free SAT preparation workshop series for students who would not otherwise be able to afford access to their programming supports.
Northwestern Splash	Northwestern Splash is an annual Saturday event that hosts high school students from around the area, engaging them in NU student-run mini-courses in a variety of topics.
Poetry Week Collaboration	The Partnership Office supports ETHS Poetry Week by hosting a series of writing workshops and poetry reading events run by NU faculty and students.
NDSS Program	Northwestern's Non-Degree Seeking Special Students (NDSS) Program provides the opportunity and funding support for ETHS students to take University courses in foreign language and computer science. The courses are available for students who have exhausted these course sequences at the high school.

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ETHS Topics in Mathematics Course	Each year Northwestern funds a Math Professor at ETHS to teach a special Topics in Mathematics course for students who have completed multi-variable calculus.
Northwestern Public Interest Program Fellowships (NU PIP)	ETHS hosts Northwestern Alumni who are part of the NU PIP in one year fellowships in areas such as Equity Fellows, Community Service, and Design.
Senior Studies Support	The Partnership Office supports ETHS Senior Studies through connecting students with NU faculty, programs, and student groups. Coordination also include collaboration with Northwestern's Office of Undergraduate Research.
NU Library Partnership	Northwestern Libraries extend privileges to ETHS students & staff, coordinating interlibrary loan, access to facilities, and online resources.
Team ASAP Support	Northwestern staff member Karina Morales designed and led a workshop focused on study strategies, stress management, and organization for Team ASAP students.
Cats Come to Dinner	Through Northwestern's Student Government, ETHS families can host NU students for dinner and conversation. Positive feedback has shown that ETHS families value this opportunity to engage with current college students to inspire and encourage the high school age children.
Northwestern's International Office Programs	Through Northwestern's International Office, ETHS families host NU students for Thanksgiving Dinner and the Conversation Partners Program through the Community Council for International Students (CCIS).
ETHS Marching Band Collaboration	ETHS Bands collaborate with Dan Farris and the Northwestern University Marching Band through NU Band Day, Kits, Cats, and Kids Pep Rally, and the Evanston Day game at NU.
Mayor's Summer Youth Employment Program	NU employs 30+ ETHS students every year as part of Evanston's Mayor's Summer Youth Employment Program.
ETHS Civics Fair Volunteers	Northwestern faculty and staff hosted discussion tables at ETHS' annual Civics Fair. NU departments included the Program of African Studies, Latino/a Studies, Middle East and North African Studies, and the Center for Diversity & Democracy.
CTE Research Collaboration	Graduate Student Lynn Meissner is collaborating with ETHS' CTE Department Chair to engage design and implement research around CTE course-taking patterns and post-secondary pathways.

PRIORITY #4 – Identity and Social Consciousness

Activity	Description
ETHS Black Student Summits	The Partnership Office supports ETHS' Black Student Summits each year with donations provided by the Office of Community Education Partnerships and the School of Education and Social Policy. Northwestern provides volunteers and facilitators to assist in the programming.
Women's Empowerment Conference	The Northwestern Partnership Office organizes and funds the annual Women's Empowerment Conference for ETHS students on NU campus. Support is provided by Northwestern's Office of Community Education Partnerships, the School of Education and Social Policy, and Evanston Public Library.
LatinX Conference	Northwestern's Latino/a Studies Department and various student groups support the annual LatinX Conference through guest speakers, student panels, artist visits, and facilitated workshops.
Asian Middle Eastern Student Summit	Northwestern supports the ETHS AME Summit with donations, student panels, and guest speakers from various departments and student groups.

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LGBTQ+ Summit	Northwestern provides support for the annual summit through collaboration with faculty and student groups across campus.
Black Men LEAD	Northwestern and ETHS students collaborate on a joint Black Men LEAD Initiative to bring together Black Male undergraduate, graduate, and high school students. The students designed and hosted a two-day conference at Northwestern. Continued engagement events throughout the quarter include social, conversational, and service events that bring together multiple generations of Black/African American Men. Startup grant funding for the initiative provided by the Martin Family Fund and Northwestern's Linzer Grant for Innovation in Diversity & Equity.
One Book 2019-20	Northwestern's One Book, One Northwestern Program has created an array of programming open to the public around this year's selection <i>Hidden Figures</i> by Margot Lee Schetterly. Students attended the keynote conversation with Schetterly, followed by book signing and dinner on campus for the Books R Us Club. WiSTEM, Books R Us, NSBE Jr, and SHPE Jr are hosting public events for students and families for conversation with NU Professors Heather Pinkett, Nichole Pinkard, and Ludmilla Aristilde. The events include dinner, Q&A with the scientists, and a screening of <i>Hidden Figures</i> in the ETHS Planetarium. Together with ETHS Alumni Association, the Partnership Office purchased class sets of the book and the Young Reader's Edition for each academic department.
Students Organized Against Racism (SOAR)	Northwestern hosts and supports the annual SOAR Conference twice per year on campus.
Ethnic Studies Workshops	Northwestern Professor Alejandro Carrion is collaborating with ETHS to design and host an annual Ethnic Studies Workshop series that focuses on dialogue and development of themes across the Social Consiousness Series. Carrion has partnered with ETHS staff and students with the LatinX Summit, presenting their work at the American Education Research Association (AERA), the Minority Student Achievement Network (MSAN) Leadership Conference, and Northwestern's Broader Impacts Symposium.
Social Justice Advocacy Workshops	Northwestern Director of Leadership and Community Engagement Kelly Benkert host ETHS students for Social Justice Advocacy Workshops. These events are in collaboration with ETHS Community Service Department and the History/Social Sciences Department. NU's Kelly Benkert and ETHS' Mary Collins co-authored and published a paper highlighting the design and success of these collaborations.
Northwestern Martin Luther King, Jr. Celebration	ETHS SOAR students collaborate with the Northwestern MLK Planning Committee to design and implement the Celebration of Service & Learning for the annual event.
Program for African Studies & Herskovits Library of African Studies Collaboration	ETHS teacher Aaron Becker partners with Northwestern's Program for African Studies and the Herskovits Library of African Studies annually in a unique collaboration for Humanities courses. Becker provides guidance and feedback for both of these programs as they design and implement teacher professional development workshops for area teachers.
Mary & Leigh Block Museum of Art	The Mary & Leigh Block Museum collaborates with various ETHS teachers and programs each year based on their current exhibition. For this year's Caravans of Gold Exhibition, the Block hosted teacher professional development workshops for a history teacher field trip as well as multiple student field trip events with connections across campus.
NU BIO Study	Funded by the Spencer Foundation, Northwestern's Context of Adolescent Stress and Thriving (COAST) Lab is conducting the Biology Identity and Opportunity (BIO) Research Study with ETHS freshmen. The study aims to examine adolescent stress and positive identity development.

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Humanities Day @ NU	Northwestern's Middle East and North African (MENA) Studies Department organizes Humanities Day for ETHS students on campus. Speakers and workshops are provided by NU's Social Justice Education, the Program for African Studies, MENA and the Center for Diversity & Democracy.
Indigenous Studies & Community Engagement	ETHS teachers and families collaborate and attend many free public events from Northwestern's American & Indigenous Student Alliance (NAISA), Colloquium on Indigeneity & Native American Studies (CINAS), the Center for Native American & Indigenous Research (CNAIR) and the Office of Institutional Diversity & Inclusion.
Critical Pedagogy Research	Ava Jackson, Graduate Student in Northwestern's Learning Sciences Program, is collaborating with ETHS teachers to document and examine critical pedagogy in History and Social Science classrooms.

ADDITIONAL COLLABORATIONS

Activity	Description
NEERA	Northwestern's School of Education and Social Policy Dean David Figlio spearheads the Northwestern Evanston Educational Research Alliance with D202 and D65. The work includes data-sharing, research alignment, and increased capacity for the District's Research and Evaluation Departments.
Kits, Cats, & Kids Block Party	Northwestern Athletics organizes an annual celebration with a joint pep rally including ETHS Marching Band, Pomkits, and Athletics.
Consultation with NU Student Groups	The Northwestern Partnership Office consults with multiple student organizations that are interested in outreach with ETHS in order to provide guidance, support, and ensure alignment with D202 goals.
Center for Civic Engagement Certificate Program	ETHS hosts an annual event for Northwestern's Center for Civic Engagement's Snapshot of Teen Life.
Practicum Sites	ETHS provides practicum sites for Northwestern's School of Education and Social Policy Students each year. Northwestern Alumni who are now ETHS faculty engage with future educators as guest speakers, discussants, and mentors.
Facilities Use	ETHS has privileges to use space at Northwestern for a variety of functions such as Beyond Diversity, D202 Board Retreat, and the annual Leadership Retreat. In kind, ETHS provides facilities for Northwestern for events such as Evanston Day for the Summer Academic Workshop, Freshmen Urban Program, and Alternative Student Breaks.
Adjunct Faculty	Several ETHS Administrators and teachers serve as Adjunct Faculty in Northwestern's School of Education and Social Policy.
ETHS Teacher Summer Opportunities	ETHS Teachers participate in a variety of opportunities at Northwestern during the summer, such as teaching courses for the Center for Talent Development, participating in Research Experiences for Teachers in Northwestern laboratories, and consulting on research and curriculum projects.
NU Equipment Donations	Northwestern donates gently used laboratory equipment to ETHS for classroom use.

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Chemical Waste Removal	Northwestern's Office for Research Safety provides a bi-annual chemical waste removal pickup with D202 and D65.
Broader Impacts Symposium	ETHS and Northwestern Faculty present at and participate in NU's Broader Impacts Symposium to highlight best practices in University-High School collaboration.