FACULTY INNOVATION GRANT (FIG) **2022-2023**

The Faculty Innovation Grant Program is a College-wide program that awards grants to full-time and adjunct faculty. The amount of available funding and types of work supported remains unchanged, but applicants can now focus on the development, implementation, and sharing of their instructional innovation rather than managing multiple grant applications in a single academic year. The FIG will be used to provide support for faculty to design and implement new tools, resources, or techniques in their classroom (or virtual classroom) to enhance instruction and increase student learning outcomes.

Eastern Campus Committee Members

Stacey Souther, Professor, Psychology (co-chair)
Shamuire Spivey, Assistant Dean, Academic Affairs (co-chair)
Lorin Chandler, Adjunct Faculty, English
Sonja Elekhtaby, Manager, Adjunct Services
Douglas Gunnerson, Associate Professor, Accounting
Silvana Hrepic, Associate Professor, Spanish
Scott Trimmer, Director, Learning Commons
Heather Young Mandujano, Senior Instructional Designer

Metropolitan Campus Committee Members

Adam Dilulio - Assistant Dean, Academic Affairs, INT Assoc Dean, Bus, Math Tech (co-chair)
(co-chair)
Mary Thompson - Associate Professor, Librarian (FT faculty co-chair)
Cathleen Rossman - Associate Professor, Mathematics (FT faculty)
Kyla Weeks - Assistant Professor, English (FT faculty)
Carrie Zukauckas – Adjunct Faculty (PT faculty)
Karen Cross-Hatten – Manager, Adjunct Services
Jackie Bruner - Instructional Technologist, Center for Learning Excellence
Tim Davis - Specialist, IT Solutions

Western Campus Committee Members

Adam Dilulio- Assistant Dean, Academic Affairs, INT Assoc Dean, Bus, Math Tech (co-chair)
Kevin Kondik, Assistant Professor, Philosophy (co-chair)
Raymond Anderson, Supervisor, Media Technology Services / Learning Commons
Angela Baker, Manager, Adjunct Services
Elaine Brunschwig, Professor, Biology
Kevin Dranuski, Sr. Instructional Designer, Center for Learning Excellence
Lois Hansen-Polcar, Professor, Chemistry
Eric Olson, Lecturer, Anthropology

Westshore Campus Committee Members

Robin Williams- Assistant Dean, Academic Affairs (co-chair)
Elizabeth Vaidya - Professor, Biology (co-chair)
Casey Brown - Senior Instructional Designer
Dennis Joyce, Manager, Adjunct Services
Nancy Weissman, Librarian / Professor

Amy Friedman, Assistant Professor, Mathematics
Ovildiu Vatamanu

2022-2023 Faculty Innovation Grant (FIG) Awardees

Eastern Campus

Chris Faciana - Program Director, Sports & Exercise Studies, Adjunct Faculty, Exercise Science
Jim Funai - Assistant Professor, Plant Science Technology

Metropolitan Campus

Deniece Jukiewicz - Assistant Professor, Nursing
Pamela Ngangana - Assistant Professor, Nursing
Kathleen Paskert-Specialist, Nursing Lab
Amy Schulte - Training Specialist, Nursing
Evelyn Torres - Administrator Coordinator, Nursing
Richard London - Assistant Professor, Biology
Melanie Shearer - Associate Professor, Medical Assisting

Western Campus

Catherine Bloor - Assistant Professor, Nuclear Medicine
Michael Longrich - Assistant Professor, Automotive Technology
Ted Schafer - Assistant Professor, Automotive Technology
Holly Clemens - Professor, Physical Education
Terrence Kline - Associate Professor, Veterinary Technology
Melanie Shearer - Associate Professor, Medical Assisting
Karen Goulandris - Assistant Professor, Early Childhood Education
Darrell Clemetson - Assistant Professor, Respiratory Care
Dominique DeSciscio - Program Director, Respiratory Care
Ashley Kuzma - Preceptor, Respiratory Care

Westshore Campus

Michael Piero- Professor, English
Amanda Hanley- Assistant Professor, Mathematics
Nachum Meres- Lecturer, Biology

Eastern Campus Faculty Innovation Grant (FIG) Awardees

Chris Faciana- Program Director, Sports & Exercise Studies, Adjunct Faculty, Exercise Science
"Swivl System Technology"
The pandemic has changed everything from the way we teach and the way students access instruction and learn. Though various formats of teaching virtual classes have been used, they do not match the immersive experience students get when they feel they are in the classroom. Even teaching in-person can find faculty standing behind a computer station rather than interacting with students and making lessons engaging. Providing faculty with advanced classroom technology that provides immersive and engaging experiences can energize student engagement and enhance student success. One such advanced classroom technology is Swivl system. As an educator moves around the classroom, Swivl records or live streams videos for interactive teaching, coaching, reflection and saving key moments for students and faculty to revisit later.

Jim Funai- Assistant Professor, Plant Science Technology
"Tree Survey Skills Training"
By partnering with Tree Plotter by PlanITGeo (Web-based tree survey software) the PST program has gained access to a full tree survey software suite. This allows us access to GIS-based tracking and monitoring of all trees on campus. In order to take advantage of this cutting-edge technology, the program will need to purchase some key tree survey tools. Tree surveys require specific measurements captured by specific tools which this grant will supply. Many cities are increasing their demand for tree surveys to improve their ability to manage the urban forest, we will be able to add this skills training to our PST 1380 Intro to Treecare course which will then qualify our graduates for these types of careers.

Metropolitan Campus Faculty Innovation Grant (FIG) Awardees

Deniece Jukiewicz - Assistant Professor, Nursing
Pamela Ngangana - Assistant Professor, Nursing
Kathleen Paskert -Specialist, Nursing Lab
Amy Schulte - Training Specialist, Nursing
Evelyn Torres - Administrator Coordinator, Nursing
"Identifying and Understanding Blood pressure measurements"
This technology introduces and implements a BP training system in the Associate Degree Nursing Program. The technology is a full-size left arm using a remote control, allowing instructors to maintain distance from the student and program settings and track cuff pressures to develop skills and decrease anxiety during practice and testing. Instructors can train and evaluate by setting programmable, palpable radial pulses, allowing students to use a stethoscope to auscultate all 5 Korotkoff sounds in the antecubital area. This promotes confidence and identification of theoretical knowledge.

Richard London - Assistant Professor, Biology
"Learning Enhancements for Anatomy & Physiology Labs"
This project intends to provide microscopes at each of our 6 lab tables in MHCS 207 to interact with our computers and monitors, which our IT department is providing. This will deliver the latest information to our lab students in real time while providing a supportive engaging environment.

Melanie Shearer - Associate Professor, Medical Assisting

"Mannequin Hand Medical Assisting Phlebotomy"

Hand mannequins will replace student hands when learning how to perform venipuncture using veins found in the hand properly. Venipuncture of the hand is a delicate procedure that requires skills that can only be achieved with repetition. Multiple hand draws can be painful, especially when students are in the learning process. The mannequin will reduce minor injuries such as bruising and improve students' learning comfort levels.

Western Campus Faculty Innovation Grant (FIG) Awardees

Catherine Bloor - Assistant Professor, Nuclear Medicine

"Nuclear Medicine Lead Shielding"

In Nuclear Medicine, time, distance, and shield are imperative to maintain lower exposure to the faculty and the students.

Michael Longrich - Assistant Professor, Automotive Technology

"Automotive Leak Detection Equipment"

Leak detection equipment is utilized in automotive services to detect leaks in air ducts, intake manifolds, exhaust systems, and evaporative emission systems. All our automotive students will know when and how to utilize this diagnostic tool.

Ted Schafer - Assistant Professor, Automotive Technology

"Electric Vehicle Supporting Systems Technology Integration"

As we begin to integrate fully electric vehicles into our automotive curriculum, many vehicles that need to be serviced include existing systems that have been adapted to operate on an electric vehicle. These systems include steering and braking systems. Many service procedures on the vehicle require the high voltage propulsion system (engine) on the vehicle to be off/inactive while performing service procedures, which requires vehicle low voltage systems to be on and powered by an external power source. These systems cannot operate for extended periods necessary to service them without an external power source as they rely on lower-capacity batteries on the low voltage side of the system. Service procedures include, but are not limited to, such things as hydraulic brake system service, cooling system service (the high voltage battery uses a replaceable coolant to keep it at optimum temperature), and steering system service during such things as a wheel alignment. Performing battery learning procedures and programming requires a high-amperage external power source.

Clemens, Holly - Professor, Physical Education

The ability of the Swivl system to live stream and record videos for later use supports the college's priorities of equity, access, and success, especially for students learning remotely or those who cannot attend classes due to various circumstances. This provides students a window into the physical classroom environment so they'll have a better opportunity to stay on track with the course and feel more connected. Swivl's live-streaming capability can allow students to observe mastery of the knowledge and skills gained in the course through various assignments and teaching project.

Terrence Kline - Associate Professor, Veterinary Technology

"Hand-held Ultrasound for Veterinary Technology"

Ultrasound is an essential modality in diagnostic imaging, and this unit is cutting-edge technology. It will give our students the best training that we can hope to provide, as well as give us a beneficial diagnostic tool for the maintenance of our dog and cat colony.

Melanie Shearer - Associate Professor, Medical Assisting

"Mannequin Hand Medical Assisting Phlebotomy"

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Karen Goulandris - Assistant Professor, Early Childhood Education

"Early Childhood Education-Resources to Support Inclusive Classrooms"

Learning about inclusive classrooms is essential to the success of a student entering the field of education. Using CARA's Kit (Creating Adaptations for Routines and Activities) and the supplemental posters are valuable resources to help Tri-C students in responding to the aspect of experience plan writing assignments that ask them to "Describe any accommodations and modifications needed to support children's diverse developmental level as, including adaptations for materials or set up necessary for some children." The problem is that CARA's Kit and supplemental resources are not readily available to the ECED students. We refrained from adding CARA's kit as a mandatory material purchase in Tri-C's ECED courses to keep student costs down. Providing these resources for regular student access in the ECED lab will significantly benefit them as they gain consistent knowledge and information from the comprehensive information provided in the CARA's Kit and supplemental posters.

Darrell Clemetson - Assistant Professor, Respiratory Care
Dominique DeSciscio - Program Director, Respiratory Care
Ashley Kuzma - Preceptor, Respiratory Care

"A Breath Ahead - Respiratory Care Lab Connections for Student Success"

Respiratory care students will be able to learn and perfect skills related to a valuable piece of equipment in the respiratory care field - the air compressor. These skills will set them up for graduation success and beyond.

Westshore Campus Faculty Innovation Grant (FIG) Awardees

Amanda Hanley - Assistant Professor, Mathematics

"Contemporary Math Workbook"

The creation of a comprehension Contemporary Math Workbook, students can save time, money, and headaches! – by successfully completing their MATH-1240 course. They will also learn note-taking and organizational skills while providing instructors with a tool to guide and support them in planning their lessons.

Nachum Meres - Lecturer, Biology

"Development of a Laboratory Book to Accompany BIO 106L: Environment, Ecology and Evolution"

This project aims to compile an affordable laboratory manual to accompany BIO 106L (Environment, Ecology and Evolution Laboratory) that would satisfy course objectives and outcomes. In addition to developing a student lab manual, a companion instruction and preparatory guide would be created to provide information to the course instructor and the laboratory technician assigned to the course.

Michael Piero - Professor, English

"Switch-ing it Up: Gaming Technology for Classroom Engagement"

To enhance student engagement, the purchase two Nintendo Switch consoles, six additional controllers, and several games, to design and implement this technology in my ENG 101H, 102H, and (if running on-ground) ENG 2770 courses. This technology shall prove helpful in my existing ENG 101H Video Game Rhetorical Analysis unit—a unit supported by a 2018 FIG grant—but also in expanding the peer-to-peer interactions within that unit, looking at a game together in class (via projecting the game to classroom smart boards), and removing the need to install and open network ports for video games on classroom computers (and, of course, needing to request an in-demand computer classroom for just one unit).