
Choose Ohio First

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Networking Meeting
Agenda
Friday, May 18, 2018

12:35: University of Akron

1:05: Youngstown State University

1:35: Muskingum University

2:05: Findlay University

2:35: Baldwin Wallace

3:05: Columbus State

3:35: Bowling Green State University

3:35-4:00: Conclusion/ Informal Q&A

Avis Brown

Program Director, Choose Ohio First

The University of Akron

May, 18th 2018

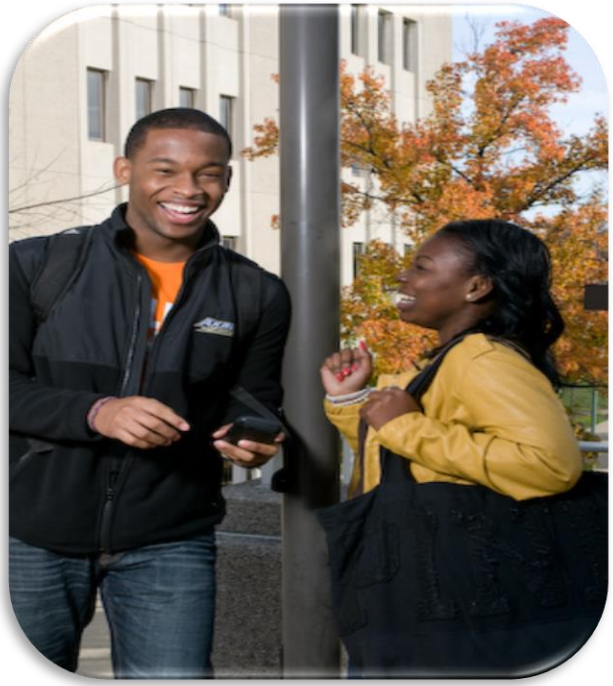
Proactive Support Model

Root to Fruit

The University of Akron

Overview

- Recruitment
- Running Start
- Intrusive Support
- Goal Setting Meetings
- Progress Reports
- Socio-Cultural Events
- Peer Mentoring
- Supplemental Instruction
- Office Environment
- Outcome



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Program Components

- Recruiting/Pipelines
- Running Start Summer Bridge Program
- Life/Success Coaching
  - Academic monitoring
  - Goal-setting
- Supplemental Instruction
  - Tutor Mentors
- Community engagement, service & leadership

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Recruitment

- 2 Recruitment Coordinators-COF staff dedicated specifically for recruitment

- Visits
  - Day long school visits
  - UA visit days (Admissions, Engineering, College of Nursing, etc).
  - Community partners and outside fairs

- 5 star visit days
  - Recruit for Running Start as well as COF
  - Interested students shadow our current scholars in class
  - Recruit students and families into the program

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Running Start Summer Bridge

- Running Start Summer Bridge
  - Live on campus
  - Eight-week math course
    - Supplemental Instruction
  - Goal Setting and College Success Workshops
  - Socio-Cultural Activities
  - Students who comply with expectations become COF Scholars for the Fall semester and receive scholarship

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Living Learning Community

- Running Start students that successfully complete the program are required to live together in a Learning Community (Fall/Spring)
- Resident Assistant is COF scholar
- Take Freshman Experience class together

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Intrusive Support

- Consists of requiring students to do what will be helpful to them, even when they do not want to do so.
- Components:
  - Individual Success Plans
  - Life coaching/mentoring
  - Progress reports
  - Socio-cultural events
  - Mentoring
  - Supplemental Instruction

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Goal Meetings

- Individual Success Plan
  - S.M.A.R.T. Goals
- Academic and Life/Sociocultural Goals
- Build rapport and get to know Scholars
- Identify barriers to Scholars' success
- Goals created collaboratively with Coordinators and Scholars
- Follow up with Scholars throughout semester

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Individual Success Plan

☐	Pell Grant Recipient	☐	Has Dependents	☐	Non-Traditional
☐	First-Generation College Student	☐	Veteran	☒	Ethnic Minority
☐	English is NOT first language	☐	Foster Care/Ward of the Court	☐	IEP/504 Plan
☐	Urban, Public High School	☐	Female (Engineering ONLY)		
☒	Works _18__ Hours/Week	☒	Commutes		
☐	Office of Accessibility	☐	Other (Please Indicate)		

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Progress Reports

- Submit twice during the semester
- Multiple purposes:
  - Scholar knows their grade
  - Scholar builds relationships with professors
  - COF staff are aware of Scholar grades
  - COF staff can require Scholar to get additional help if grades are poor (C or below)

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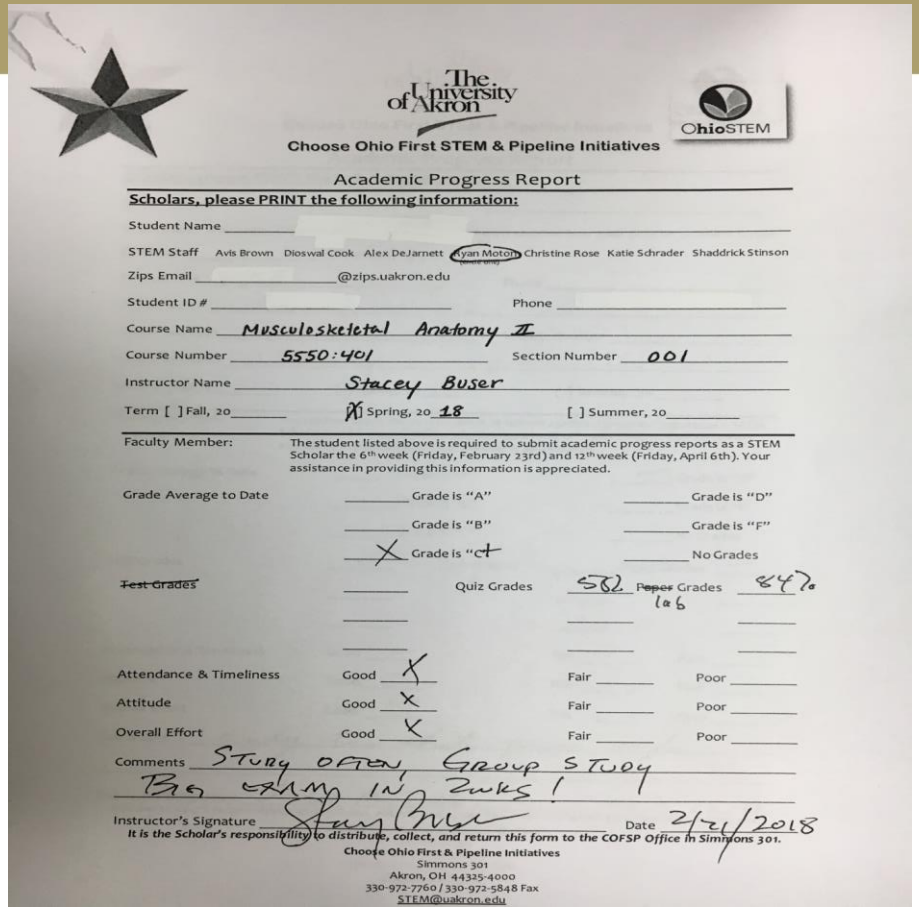

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Choose Ohio First STEM & Pipeline Initiatives

OhioSTEM

Academic Progress Report

Scholars, please PRINT the following information:

Student Name _____

STEM Staff Avis Brown Dioswal Cook Alex DeJarnett Ryan Motom Christine Rose Katie Schrader Shaddrick Stinson

Zips Email _____@zips.uakron.edu

Student ID # _____ Phone _____

Course Name Musculoskeletal Anatomy II

Course Number 5550:401 Section Number 001

Instructor Name Stacey Buser

Term [ ] Fall, 20_____ [X] Spring, 20 18 [ ] Summer, 20_____

Faculty Member: The student listed above is required to submit academic progress reports as a STEM Scholar the 6th week (Friday, February 23rd) and 12th week (Friday, April 6th). Your assistance in providing this information is appreciated.

Grade Average to Date

_____ Grade is "A"
_____ Grade is "B"
X Grade is "C+"
_____ Grade is "D"
_____ Grade is "F"
_____ No Grades

~~Test Grades~~ _____ Quiz Grades 58 ~~Paper~~ Grades 84% lab

	Good	Fair	Poor
Attendance & Timeliness	X	_____	_____
Attitude	X	_____	_____
Overall Effort	X	_____	_____

Comments STUDY OFTEN, GROUP STUDY
BIG EXAM IN 2WKS!

Instructor's Signature _____ Date 2/26/2018

It is the Scholar's responsibility to distribute, collect, and return this form to the COFSP Office in Simmons 301.

Choose Ohio First & Pipeline Initiatives
Simmons 301
Akron, OH 44325-4000
330-972-7760 / 330-972-5848 Fax
STEM@uakron.edu

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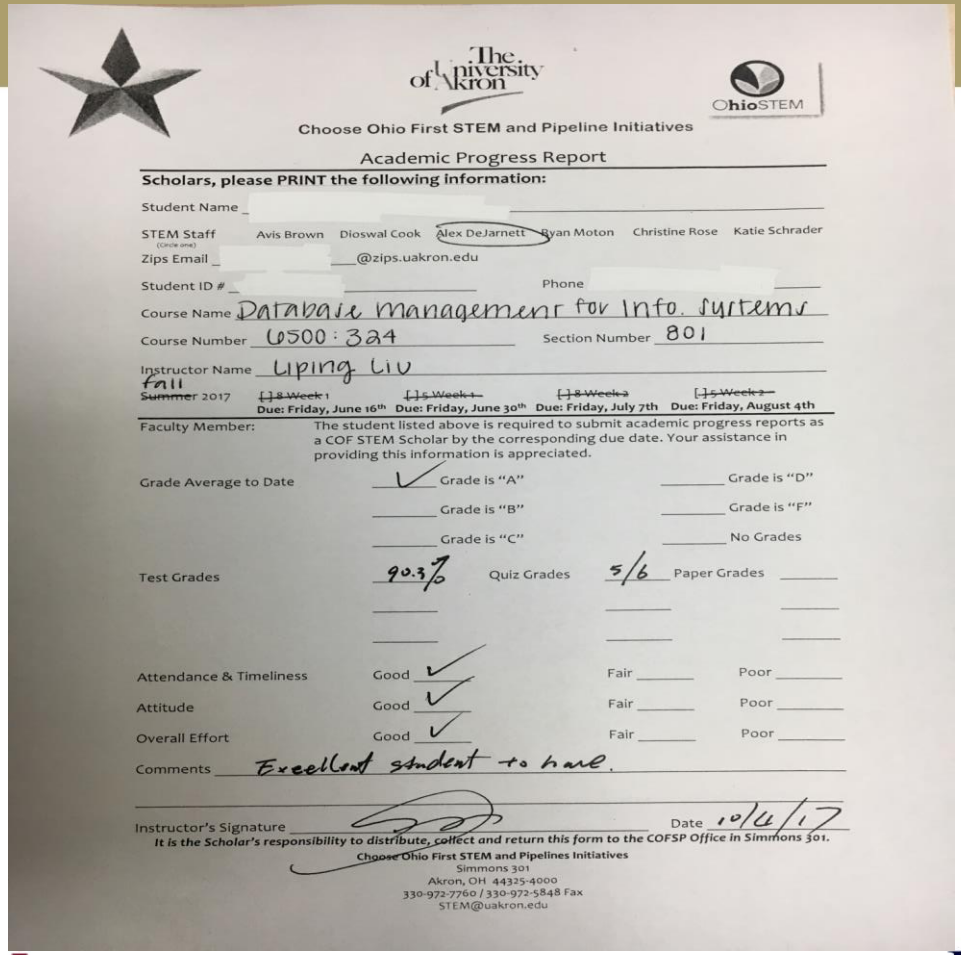

The University of Akron

OhioSTEM

Choose Ohio First STEM and Pipeline Initiatives

Academic Progress Report

Scholars, please PRINT the following information:

Student Name _____

STEM Staff (Circle one) Avis Brown Dioswal Cook Alex DeJarnett Ryan Moton Christine Rose Katie Schrader

Zips Email _____@zips.uakron.edu

Student ID # _____ Phone _____

Course Name Database management for Info. Systems

Course Number 0500:324 Section Number 801

Instructor Name Liping Liu

~~Summer~~ fall 2017 ~~[ ] 8 Week 1~~ Due: Friday, June 16th ~~[ ] 5 Week 1~~ Due: Friday, June 30th ~~[ ] 8 Week 2~~ Due: Friday, July 7th ~~[ ] 5 Week 2~~ Due: Friday, August 4th

Faculty Member: The student listed above is required to submit academic progress reports as a COF STEM Scholar by the corresponding due date. Your assistance in providing this information is appreciated.

Grade Average to Date
- ✓ Grade is "A"
- _____ Grade is "B"
- _____ Grade is "C"
- _____ Grade is "D"
- _____ Grade is "F"
- _____ No Grades

Test Grades	90.3%	Quiz Grades	5/6	Paper Grades	

Attendance & Timeliness	Good ✓	Fair	Poor	
Attitude	Good ✓	Fair	Poor	
Overall Effort	Good ✓	Fair	Poor	

Comments Excellent student to have.

Instructor's Signature _____ Date 10/4/17

It is the Scholar's responsibility to distribute, collect and return this form to the COFSP Office in Simmons 301.

Choose Ohio First STEM and Pipelines Initiatives
Simmons 301
Akron, OH 44325-4000
330-972-7760 / 330-972-5848 Fax
STEM@uakron.edu

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Peer Tutor Mentor

- Individual Model; One-on-One/ Group
- All freshmen are required to meet with TM
- Purpose

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Supplemental Instruction

- One-on-One
- Small group
- Centralized tutoring
- Monitoring/Tracking
- Scholars and Students may be assigned to attend study tables to improve study habits

- Data:
  - 6,050 students entered the COF office in the fall 2017
  - We held 30 review sessions with 14 taking place the week before finals
  - 3,379 students entered the COF office in the spring 2018

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Socio-Cultural Events

- 1-2 Mandatory Events
- 2-4 Optional Events
  - Choose between 5-12 events offered
- Events already happening on campus
  - Speakers
  - Movies
  - Athletic Events
  - Developmental workshops
- Purpose

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Office Environment

- Open Environment
- The "Brand"
  - Scholar gear
  - Staff apparel
- Intrusive support
- Open door policy
- Holistic support
  - Additional barriers to academic success
  - Life coaching

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Outcomes

- Community
- Academic Success
- Student Retention and Graduation

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Questions

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Choose Ohio First Scholarship Program

Youngstown State University

08-09/16-66/16-77

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YOUNGSTOWN STATE UNIVERSITY

stem

College of Science, Technology, Engineering & Mathematics

YSU-COF Background & Motivation

- YSU-COF & Workforce Development
- Program Priorities
- Program Components
- Proven Success

YSU-COF Workforce Development

- STEMM related companies/industries—career positions often set up by co-ops/internships set up by mandatory COF research projects
- Advanced/digital manufacturing (including additive/subtractive)
- Biohealth/biomedical/bioengineering
- STEMM education (secondary math, secondary science)
- YSU-BaccMed (premier integrated pre-med with primary care focus)
- Actuarial science / mathematical finance related companies
- Graduate school /academia across STEMM, including placements often set up by mandatory COF research projects

YSU-COF Program Priorities

- **Predictors**
  - Predicted growth in STEMM fields but lack of qualified workforce, state-wide and in NE Ohio
  - Mathematics preparation most important enabler or impediment to success in STEMM disciplines
- **Priorities**
  - Recruitment of mathematically qualified students to STEM majors/programs
  - Recruitment/maths preparation of students from historically underrepresented populations in STEM
  - Timely progress/graduation of STEM majors (defines “mathematically qualified” above)
  - All YSU majors in STEMM, but with emphases on:
    - Advanced/digital manufacturing (additive & subtractive)
    - Biohealth/biomedical/bioengineering majors
    - STEMM education (secondary maths & science education)
    - YSU-BaccMed (pre-med/med program, primary care focus)
    - Actuarial science & financial mathematics

YSU-COF Supported Programs

08-09/16-66/16-77			
SCIENCE		**ENGINEERING**	
Environmental Science	Physics & Astronomy	Engineering	Industrial Systems Engineering
Integrated Education- Science	Chemistry	Chemical Engineering	Manufacturing Engineering
Biology	Geology	Civil Engineering	Civil Engineering Technology
Biochemistry	Physics	Electrical and Computer Engineering	Electrical Engineering Technology
		Mechanical Engineering	Mechanical Engineering Technology
TECHNOLOGY		**MATHEMATICS**	
Computer Science	Information Technology	Mathematics	Actuarial Science & Financial Mathematics
Computer Information Systems		Mathematical Statistics & Probability	Integrated Education—Maths

YSU-COF Program Components: Partnerships

- Secondary Education Partners 32 high poverty school districts—urban, technical centers, diocesan schools, rural, STEM academies
- Community College Partners CCC, EGCC
- Higher Education Partners CWRU, CSU, KSU, NEOMED + NEOMED consortium (UA, BGSU, BWU, CSU, HC, KSU), UT, UC
- Industrial Partners America Makes, AST^2, HS, Humtown, Mercy Health, One Health Ohio, Vallourec-USA, Western, Nationwide, Ohio National, Anthem

YSU-COF Program Components: Pipeline & On Campus

- Free Summer Alg. II-to-PreCalc Bridge Program Targeting secondary partner students, month long, immersive
- Well-Defined Admissions and Funding Priorities **Targeting appropriately math prepared students** from STEM-underrepresented and medically underserved populations
- Scholarship/Contract Obligations Including 3.00 GPA + timely progress in STEM major + following bullets
- Monthly Cohort Meetings Mandatory: 10/year; 5/semester
- Research Team Projects/Presentations Mandatory: use research faculty mentors + higher ed. / industrial partners
- Academic Monitoring and Support Mandatory, including free private tutors on case-by-case basis

YSU-COF Program Components: Bridge Details

- Free Summer Alg. II-to-PreCalc Bridge Program Targeting secondary partner students: high poverty rural/urban districts + financially disadvantaged
- Immersive On campus 8:00 am–Noon, 5 days/week, 4 weeks + 4 hours of homework/day
- Mix of Learning Styles Lecture-listen, inquiry-based, individual projects, team projects, course portfolio
- Bridge Design Originally designed by 2 partner H.S. faculty + 3 University faculty, including the pre-testing/post-testing instruments
- Bridge Delivery Partner H.S. faculty, in consultation with University faculty
- Bridge Costs Free: instructional/texts/materials costs borne by YSU-COF match account

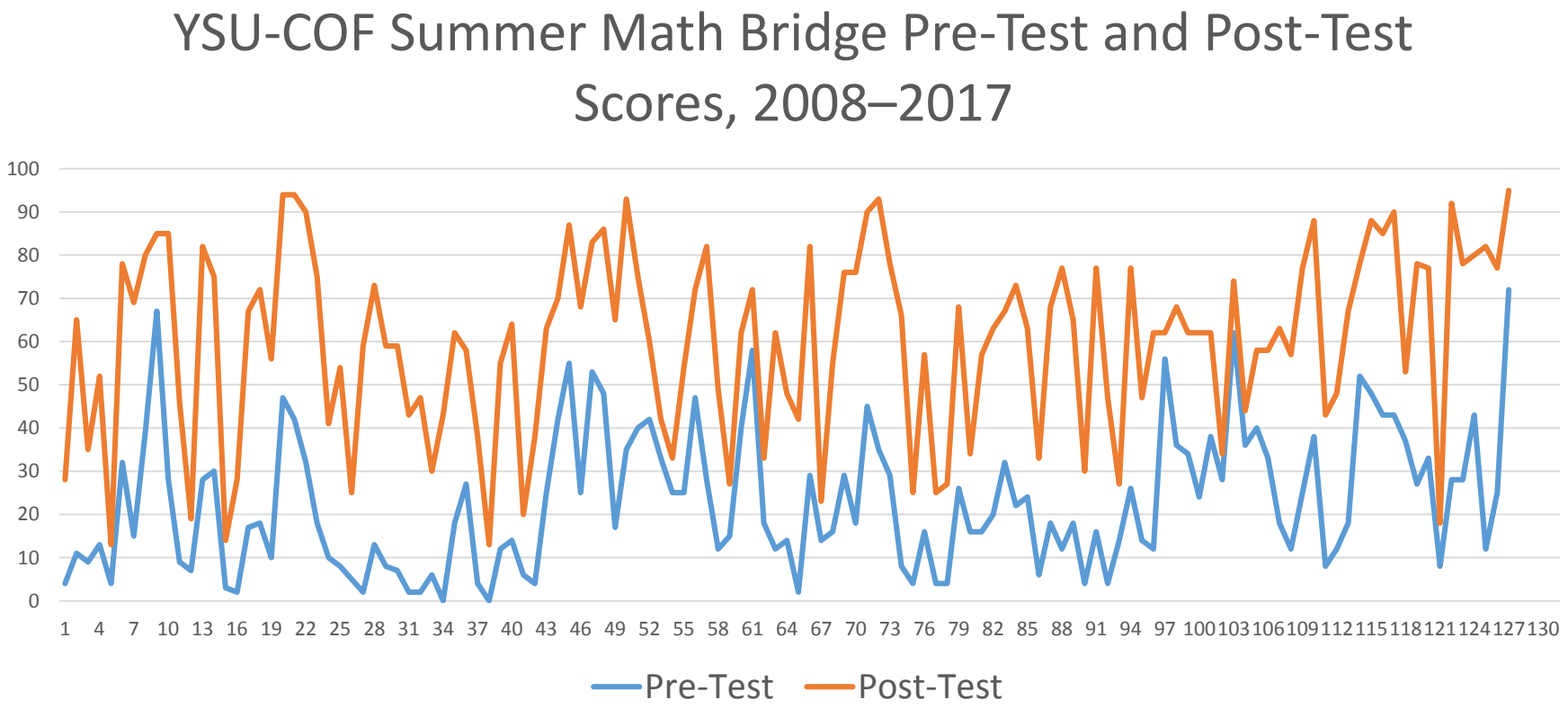
YSU-COF Program Components: Mandatory Research Teams

- Mandatory Research Team Projects YSU-COF students on research teams mentored by research faculty mentors + higher ed. / industrial partners
- Period of Research November through early April, including winter break and weekends
- Mandatory Presentations Two peer-reviewed conferences and one recruiting event: YSU-QUEST and NE Ohio COF Student Research Conference + College of STEM ShowCase (YSU), respectively
- Frequent Updates Cohort meetings in late Fall / early Spring used in part for required project updates
- Assessment Surveys Each project team mentor/ member surveyed as to each team member's participation
- Project Expenses Costs of research, research poster, travel borne by YSU-COF match account

Proven YSU-COF Successes

- Summer Bridge Pre-Test and Post-Test scores
- Student Awards/Recognitions
- Graduation Rates
- Recruitment and Retention
- Connections to Co-ops, Internships, REUs

Summer Math Bridge Performance



Student Awards/Recognitions

Annual Spring NE Ohio COF Student Research Conference

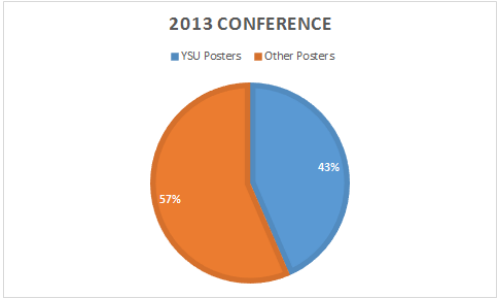
YSU projects often receive a significant number of "Top Project" awards—blue color in pie charts on right

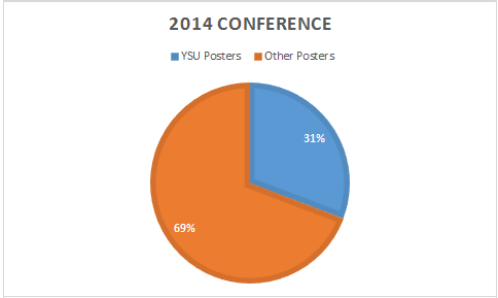
QUEST (YSU Research Forum)

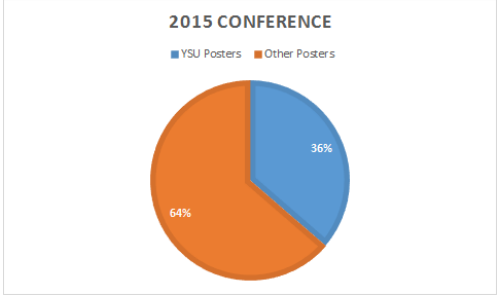
- 2014—Best STEM Undergraduate
- 2015—Best STEM Undergraduate Project and Best Overall Undergraduate project
- 2016—Best STEM Undergraduate Project, Best Overall Undergraduate project, OAS Research Award
- 2017 & 2018—Best STEM Undergraduate Project

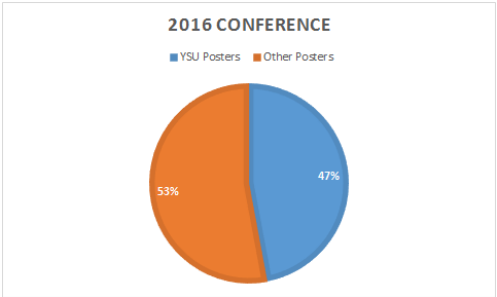
Other Honors

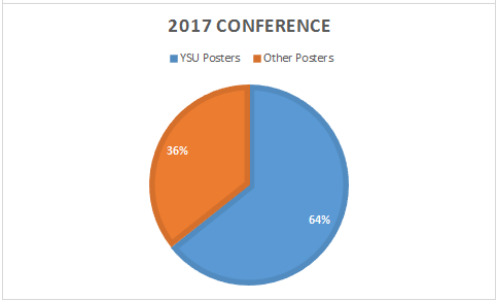
- YSU COF-sponsored research projects have been recognized at regional IEEE Student Activities conference
- YSU COF-sponsored research is most-cited article in Elsevier's *Additive Manufacturing* on-line journal; other peer-reviewed papers
- Several COF-sponsored projects lay the groundwork for patent applications
- COF research used in a featured article in *New Scientist*
- Co-ops/internships/REUs/graduate admissions across YSU-COF supported majors/programs











YSU-COF Student Outcomes and Data

161 Scholars in Cohorts 2008–2013: Overall

- 109 (67.7%) have earned a degree in a STEM field
- 14 (8.6%) earned non-STEM degrees
- 14 (8.6%) are still enrolled

251 Scholars in Cohorts 2008–2016: Female Enrollment

- Women recruited: 84 of 251 total scholars (33.4%)
- Overall STEM: 30%

251 Scholars in Cohorts 2008–2016: Minority Enrollment

- Hispanic: 15 of 251 (5.9%)
  - Overall STEM: 2.3%
- Asian: 11 of 251 (4.3%)
  - Overall STEM: 1.9%
- Black/African American: 11 of 251 (4.3%)
  - Overall STEM: 3.4%

**overall STEM data from Spring 2017 Dean's Report*

YSU-COF Student Outcomes and Data

College of STEM Retention

- F’14 to F’15: **66%**
- F’15 to F’16: **66%**
- F’16 to F’17: **68%**
- F’17 to F’18: **N/A**

YSU-COF Retention

- F’14 to F’15: **85%**
- F’15 to F’16: **90%**
- F’16 to F’17: **88%**
- F’17 to F’18: **88%**

YSU-COF Student Outcomes and Data

YSU Graduation Rates vis-à-vis YSU-COF Graduation Rates

- **YSU Overall for Cohort Entering 2010**
  - Male—30%
  - Female—33%
  - Hispanic—14%
  - Black/African American—9%
  - Asian—58%
  - Pell Grant Recipients—20.51%
- **Choose Ohio First Recipients (2008-2011 entering cohorts)**
  - Male—66 of 81 (81.4%)
    - *59 received at least two years of support, 56 of which graduated (94.9%)*
  - Female—20 of 24 (83.3%)
    - *16 received at least two years of support, 15 of which graduated (93.7%)*
  - Hispanic—5 of 6 (83.3%)
    - *5 received at least two years of support, all which graduated (100%)*
  - Black/African American—2 of 4 (50%)
    - *2 received at least two years of support, both of which*

YSU-COF Student Outcomes and Data

Incoming Metrics

- COF Incoming GPA average: 3.72
  - Range: 2.63–4.00
- COF ACT Composite Average: 26
  - Range: 18–33
- COF ACT Math Average: 27
  - Range: 18–36

Graduation Metrics (as of F'17)

- COF Graduating GPA average: 3.47
- 122 graduates to date
  - 34 summa cum laude
  - 16 magna cum laude
  - 19 cum laude
- Average time to graduate: 4.37 years (4.33 for those with ≥ 2 years support)

Discussion & Questions

MUSKINGUM
UNIVERSITY

Muskingum University COF Program Resources and Student Support

Paul Szalay

Choose Ohio First Program
Networking Meeting
May 18, 2018

COF Program History

- **Current COF Program**
  - **Choose Ohio First Scholarship Program (COFS) - Growing STEMM Education in Appalachian Ohio**
  - Partner Institution: Zane State College
- **Previously Supported COF Programs**
  - **Choose Ohio First Scholarship Program (COFS) - Ohio House of Science and Engineering: Success in STEMM through Collaboration –**Joint proposal with The Ohio State University and the University of Cincinnati
    - Funding Period: July 1, 2008 – June 30, 2017
  - **Choose Appalachian Teaching Program (CAT) – Building a Community of Mathematics and Science Teachers for Southeastern Ohio**
    - Joint proposal with Ohio University, Shawnee State, Marietta College, Rio Grande University
    - Funding Period: July 1, 2009 – June 30, 2017

Muskingum University COF Leadership Team

- **Paul Szalay**, Science Division Chair and Professor of Chemistry
  - MU COF Program Director
- **Rae White**, Professor of Education and Director of the Educator Preparation Unit
  - STEMM Education COF Recipients
- **Cindy Wilkins**, Professor of Nursing and Director of the Nursing Program
  - Traditional and RN-to-BSN COF Recipients
- **Joe Shaeffer**, Assistant Professor of Nursing
  - RN-to-BSN COF Recipients
- **Jan Winland**, Director of Graduation and Continuing Studies and Coordinator of Health Related Programs
  - Muskingum Adult Program (MAP) Health Program COF Recipients
- **Amber Gump**, Director of Student Financial Services

Muskingum University Administrative Oversight and Support

- **Nancy Evangelista**, Provost
- **Mark Sanford**, Vice President of Graduate and Continuing Studies
- **Steven Soba**, Vice President of Enrollment and Marketing
- **Beth DaLonzo**, Senior Director of Admission
- **Dan Wilson**, Director of Institutional Research and University Registrar

Student Populations Served

- **Traditional Undergraduate Students**
  - Campus residents
  - Off-campus residents
  - Commute from home
- **Non-traditional Adult Students**
  - Commute from home

Educational and Economic Disadvantages of the Regional Population

Educational attainment level of people aged 25 years or older for Muskingum and all adjacent Appalachian counties

County	No School or Less than HS	High School or GED	Assoc. Degree or Some College	Bachelor's Deg. or Higher	STEMM Bach. Degree
Coshocton	15.9%	48.9%	23.1%	12.1%	4.2%
Guernsey	14.8%	43.4%	28.6%	13.2%	4.6%
Morgan	13.5%	46.9%	28.9%	10.7%	3.8%
Muskingum	13.4%	44.4%	27.7%	14.6%	5.4%
Noble	18.9%	51.8%	19.5%	9.5%	3.1%
Perry	16.0%	45.5%	27.4%	11.0%	3.6%
Average	**15.4%**	**46.8%**	**25.9%**	**11.8%**	**4.1%**

TownCharts. (2015). Ohio Education Data. Retrieved from www.towncharts.com

Educational and Economic Disadvantages of the Regional Population

Median household income from 2009-2013 (US Dollars) and state rank (Out of 88) for Muskingum and all adjacent Appalachian Ohio counties

County	Median Household Income	Rank within the state of Ohio
Coshocton	$41,274	68th
Guernsey	$38,841	79th
Morgan	$37,865	81st
Muskingum	$40,524	73rd
Noble	$38,290	80th
Perry	$41,446	67th

Source: Index mundi. (2013). Ohio Median household income 2009-2013 by County. Retrieved from www.indexmundi.com

Approved CIP Codes for our Current COF Program

- 030104 – Environmental Science
- 110104 – Informatics
- 110701 – Computer Science
- 131316 – Science Teacher Educ./General Science Teacher Educ.
- 140101 – Engineering, General
- 260101 – Biology/Biological Sciences, General
- 270101 – Mathematics, General
- 400501 – Chemistry, General
- 400601 – Geology/Earth Science, General
- 400801 – Physics, General
- 513801 – Registered Nursing/Registered Nurse

Approved CIP Codes for our Current COF Program

- 510000 – Health Services/Allied Health/Health Sciences, General
- 511004 – Clinical/Medical Laboratory Technician
- 511099 – Clinical/Medical Laboratory Science and Allied Professions, Other
- 512306 – Occupational Therapy/Therapist
- 150201 – Civil Engineering Technology/Technician
- 150399 – Electrical and Electronic Engineering Technologies/Technicians, Other
- 150499 – Electromechanical and Instrumentation and Maintenance Technologies/Technician
- 150501 – Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/Technician
- 150599 – Environmental Control Technologies/Technician
- 150805 – Mechanical Engineering/Mechanical Technology/Technician
- 510803 – Occupational Therapy Assistant
- 510806 – Physical Therapy Technician/Assistant
- 510907 – Medical Radiologic Technology/Science – Radiation Therapist

Programming – Operations, Oversight, and Advising

- The COF program has two dedicated program directors to advise the traditional undergraduate students, two for advising the non-traditional students, and one that offers advising to both populations
- In addition to the COF program advisors, each COF student has at least one dedicated academic advisor
- Amber Gump, the Director of Student Financial Services, and several professional staff members in Student Financial Services are dedicated to assisting COF students in financial matters
- Muskingum University senior administrative oversight is in place for our COF program

Traditional COF Student Supports - Summary

- Academic Advising
- COF Programmatic and Financial Advising
- Scholar support plans as needed
- The Study Center – Peer Tutoring
- Research and Internship Programming
- Recognition Programming
- The Science Mentoring Program
- First Year Seminar

Traditional COF Student Supports – Science Mentoring Program

Traditional COF Student Supports – First Year Seminar

- **First Year Seminar Overview**
  - Faculty Instructor and COF Student Mentors
  - Cohort Unity
  - Campus Services - Career Services, Computer & Network Services, etc..
  - The Library and a Personal Librarian
  - Academic Advising
  - High School to Higher Education Transitional Advising
  - Internships and Career Preparation Advising
  - Science Specific Programming
  - New Opportunities Coming – First Year Experience

Traditional COF Student Supports – First Year Seminar

- **Science specific programming**
  - Publishing and the peer review process
  - The elements of a peer reviewed scientific paper
  - Mini-research project
    - Oral Presentation with Visual Aids on a Pre-approved Topic
    - Personal Librarian
  - Outreach programming planning and implementation
  - Upper class COF student mentoring
  - Upper class COF student research presentations

COF Programming: Non-Traditional Students

- Academic Advising
- COF Programmatic and Financial Advising
- Scholar support plans as needed
- Educational Programs in STEMM Need Areas
- Scholarship Support Supplemental Benefits
- Outreach and Educational Opportunity Programming
- Regional Workforce Development

Non-Traditional COF Students

- **Workforce Development – Nursing in Ohio**
  - In 2010, the Institute of Medicine recommended that by 2020 80% of registered nurses have a BSN degree. Multiple studies have shown that mortality rates and failure to rescue rates as well as other patient care quality indicators directly correlate with the percentage of BSN nurses in a health system/hospital
  - According to the 2015 Ohio Board of Nursing report 48% of registered nurses hold a baccalaureate or higher degree in nursing
    - 36% have the BSN
    - 11% have the MSN
    - 0.7% have a Ph.D., DNP, or other nursing doctoral degree
  - 14% are currently enrolled in a BSN program
  - 33% report that they plan to pursue a BSN or higher degree
  - If an ADN graduate is hired by a health system they are typically given 2-5 years to complete a BSN so providing that educational pathway is critical

Thank You from the Muskingum University COF Team
to
The Ohio Department of Higher Education COF Leadership Team
Fellow COF Campus Program Representatives

University of Findlay

Choose Ohio First Resources / Support

History of COF @ University of Findlay

- Three Awards
- First Award – Education – In conjunction with Bowling Green State University
- Second Award – Biology, Computer Science, Education, Pharmacy
- Third Award – Computer Science, Education, Environmental Safety and Occupational Health

History of COF @ University of Findlay

- College of Education
- 29 out 31 (94%) undergraduate students who completed are teaching in Ohio. Not included in the count 9 students that changed majors or withdrew from UF. 2 are not teaching.
- 25 out of 37 (68%) of post-baccalaureate students are teaching in Ohio. One taught out of state then went into a PhD program at the University of Buffalo in New York. 5 are teaching out of state.
- Scholars were involved with many activities on campus and completed research with some Biology professors during the program.

College of Education Activities

- STEM in the Park
- NWO Symposium on Science, Technology, Engineering and Mathematics Teaching
- Lecture by Dr. Christopher Emdin, Associate Professor in the Department of Mathematics, Science and Technology at Teachers College, Columbia University
- Assisted with Outdoor Camp for all 7th graders in Findlay City and Bluffton schools
- Presented at SSC Day at the University

College of Education Initiatives

- Partner with over 70 school districts including rural, urban and high need school districts
- In July of 2017 the COE started a Center for Educational Partnerships and Innovation that provides professional development opportunities for educators
- The COE is in the second year of a one-to-one iPad initiative
- The COE works closely with Workforce Development/Raise the Bar on Leader in Me and Literacy initiatives
- The COE has also partnered with the University of Toledo Career Technical Teacher Preparation Program and opened up trainings for COF scholars with *High Schools/Middle Schools that Work* in Northwest Ohio

College of Education Student Testimonial

I will forever be grateful for receiving the Choose Ohio First funding. It allowed me to continue my education at a highly respected university where I was able to learn all the necessary skills and education that will allow me to teach the future generations. I will be graduating on time in May 2018 because I received this scholarship. It allowed me to focus directly on my classes without having the financial burden that is associated with a four year degree. I can honestly say that without this scholarship many other factors may have derailed me from achieving my goal of graduating this May. I am very appreciative of the opportunity that I was given and very thankful for the funding.

Connor Sullivan ‘18

History of COF @ University of Findlay

- College of Pharmacy
- Dating back to fall 2014
- 43 students
- Students have been involved in Research and Presentations-local, state and national levels, summer camps to recruit students to Ohio colleges and universities, community service, presentations to local schools regarding their major, this university, and community health issues at large activities
- 100% STAYED IN OHIO
- One 1 student dropping program

History of COF @ University of Findlay

- Biology

Activities: Outreach programs such as STEM in the Park and Hancock County Farm Tour that have impacted over 5,000 families in NW Ohio, Rolling Thunder STEM Outreach

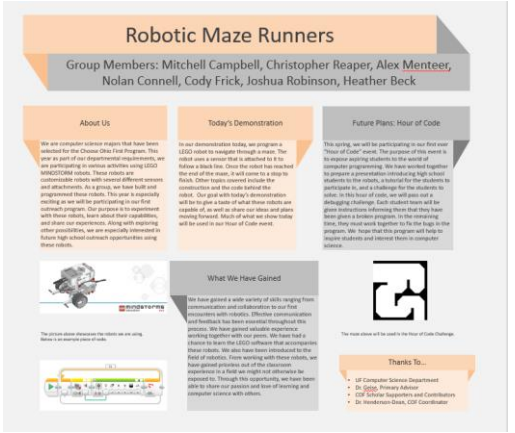
- All students have entered into Graduate or Professional school
  - Medical School: 1
  - Veterinary School: 15
  - Physician Assistant: 3
  - Masters of Public Health: 1
  - Unknown: 1

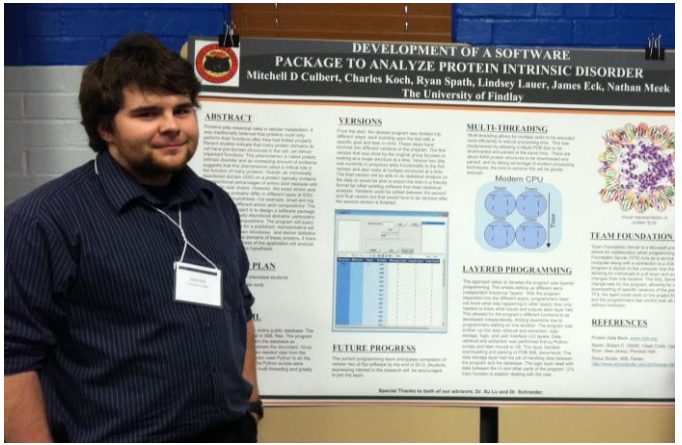
History of COF @ University of Findlay

- Computer Science
- CSCI COF Program Summary
  - 30 total participants since 2012
    - 24 graduated
      - 17 are employed in Ohio (11 at Marathon Petroleum Corporation, Findlay, OH)
      - 5 left Ohio for employment (one joined the military)
      - 1 employment unknown
      - 1 full-time graduate student in our MSASA Program
      - 3 have earned MBA's and 4 are enrolled in technical masters programs
    - 6 are continuing scholars
    - 4 were dropped from program
    - 4 most recent graduates
      - 1 employed in Ohio
      - 1 employed out of state
      - 2 employment unknown

History of COF @ University of Findlay

- Activities
  - IA Forum and SSC
  - Participation in Programming Team Competition at CCSC Regional Conference
  - Student Undergraduate Research Projects
  - Lego Robot Project
    - Taught faculty members how to program Lego Robots
  - Hour of Code Event with Marathon IT Explorers
    - Lego Robot Maze
  - Scholar's Forum
  - Provided an Hour of Code session with Android Programming for Marathon IT Explorers
  - Taught programming to gifted middle school students
  - Attendance at Tech Toledo Holiday Mixer
    - Largest gathering of IT Professionals in NW Ohio





Current COF Program

- 11 first-year students
- 3 programs with active students / 1 program inactive
  - Education – 3 students
  - Computer Science – 5 students
  - Environmental, Safety, and Occupational Health – 3 students
  - Logistics - inactive

Current COF Program

- CSCI 5 new freshman
- Mentors:
  - External: CSCI Advisory Board Members & COF Alums
  - Internal: Faculty Advisors & COF Advisor
- Activities:
  - COF Mixer attendance
  - SSC Presentation on COF Experiences
  - Attendance at IA Forum
  - Attendance at Invited Technology Speakers
  - Development of an Hour of Code for Marathon IT Explorers
    - Exploring Virtual Reality topic
  - Attendance at Tech Toledo Holiday Mixer

Current COF Program

- ESOH
  - Participate in two of the following three institutional level events:
    - Attend the Choose Ohio First Reception/Mixer at the President of the University, Dr. Fell's House
    - Present at the SSC Day about professional development you have received through this program.
    - Participate on the ESOH Freshmen team for the Run the World 5K on Thursday, September 7th at 6:30pm.
  - Participate in UF-assigned Mentor program and work with your cooperating instructor during experiential courses
    - Meet with Dr. Murphy to discuss your professional development activities and goals
      - Mentors are alumni and non-alumni practitioners

Current COF Program

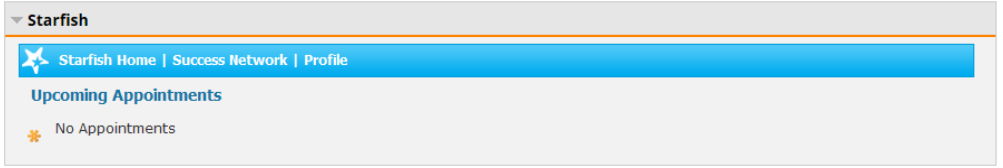
- Participate in three of the following five ESOH activities (must attend one of the first two on the list and then two others):
  - Attend the Student Sustainability Leaders Conference, September 23, 2017 at the University of Dayton, Hanley Sustainability Institute
  - Attend and help out at the STEM in the Park on September 23, 2017.
  - Attend the Northern Ohio ASSE Dinner Meeting on September 25th at Martino's International Café in Vermilion, Ohio. Guest speaker is Marc Kolanz of Materion Corporation. Transportation will be provided,
  - Attend 80% of the OESHO/ASSE organization meetings during the academic year.
  - Attend the Fall College of Science Job fair and speak with each of the companies/agencies hiring from the ESOH program. Written verification required.

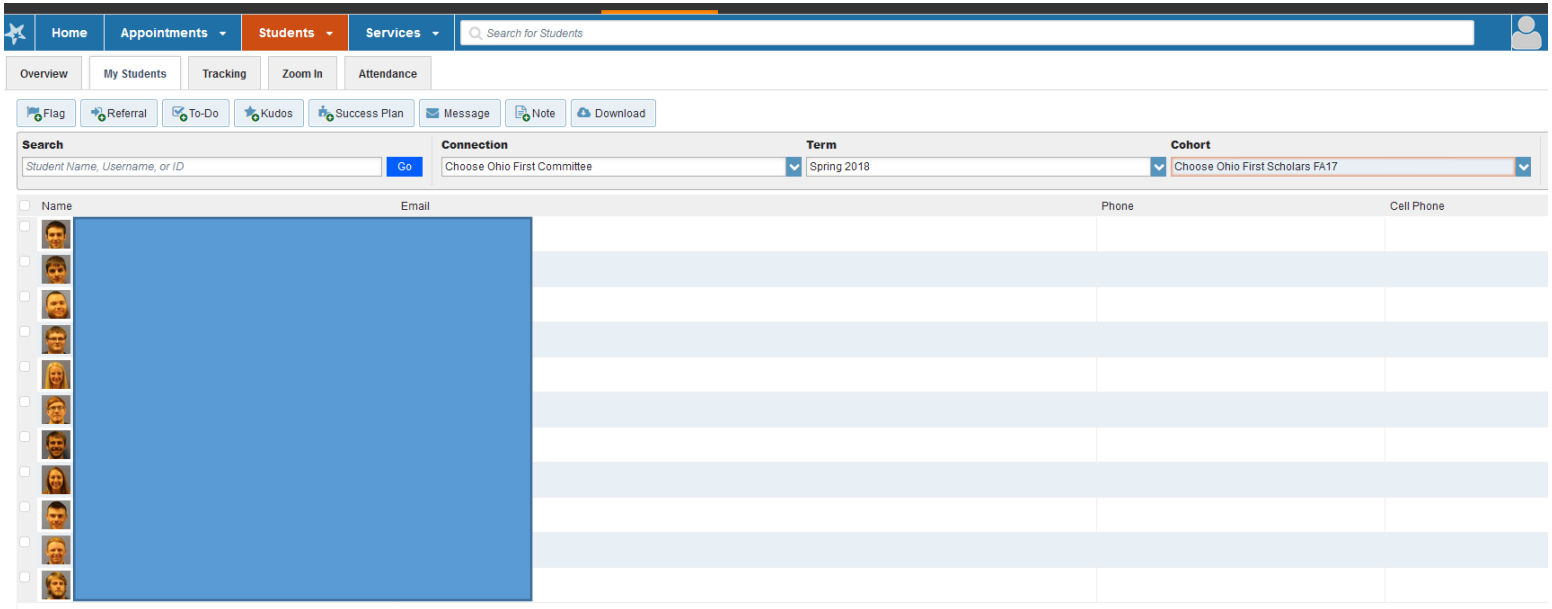
Current COF Program

- ESOH
  - Corporate Partners
    - Marathon Petroleum
    - BP Husky Refinery Toledo
    - PepsiCo
    - Pepsi Bottling North America
    - G2 Revolution
    - Watterson Environmental, Inc.
    - Alvada Construction/Kirk Brothers Construction (same owners)

Current COF Program

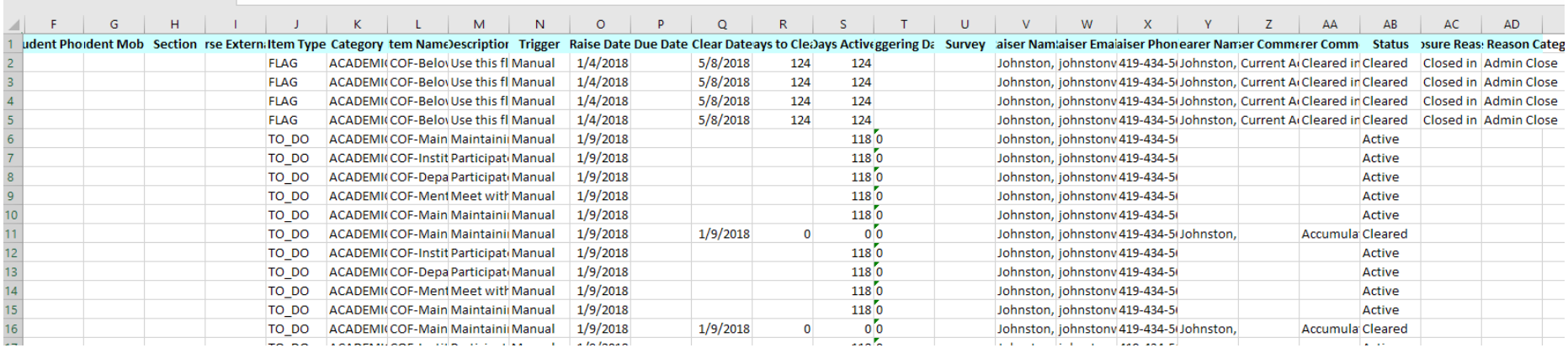
- Retention and Academic Support
  - Starfish





Current COF Program

- Retention and Academic Support
  - Starfish



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1	udent Pho	dent Mob	Section	rse Extern	Item Type	Category	tem Name	Description	Trigger	Raise Date	Due Date	Clear Date	ays to Cle	Days Active	ggering Da	Survey	aiser Nam	aiser Ema	aiser Phon	earer Nam	er Comme	rer Comm	Status	osure Reas	Reason Categ
2					FLAG	ACADEMI	COF-Belo	Use this fl	Manual	1/4/2018		5/8/2018	124	124			Johnston,	johnstonv	419-434-5	Johnston,	Current A	Cleared in	Cleared	Closed in	Admin Close
3					FLAG	ACADEMI	COF-Belo	Use this fl	Manual	1/4/2018		5/8/2018	124	124			Johnston,	johnstonv	419-434-5	Johnston,	Current A	Cleared in	Cleared	Closed in	Admin Close
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7					TO_DO	ACADEMI	COF-Instit	Participat	Manual	1/9/2018				118	0		Johnston,	johnstonv	419-434-5				Active		
8					TO_DO	ACADEMI	COF-Depa	Participat	Manual	1/9/2018				118	0		Johnston,	johnstonv	419-434-5				Active		
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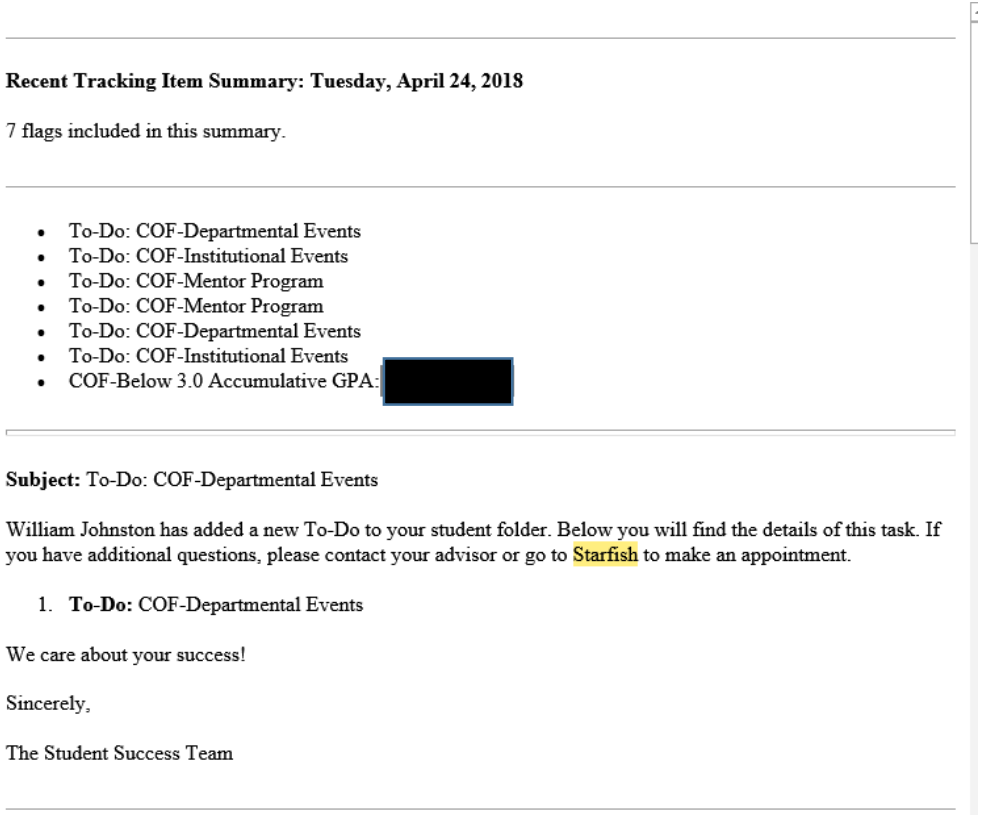
12					TO_DO	ACADEMI	COF-Instit	Participat	Manual	1/9/2018				118	0		Johnston,	johnstonv	419-434-5				Active		
13					TO_DO	ACADEMI	COF-Depa	Participat	Manual	1/9/2018				118	0		Johnston,	johnstonv	419-434-5				Active		
14					TO_DO	ACADEMI	COF-Ment	Meet with	Manual	1/9/2018				118	0		Johnston,	johnstonv	419-434-5				Active		
15					TO_DO	ACADEMI	COF-Main	Maintaini	Manual	1/9/2018				118	0		Johnston,	johnstonv	419-434-5				Active		
16					TO_DO	ACADEMI	COF-Main	Maintaini	Manual	1/9/2018		1/9/2018	0	0	0		Johnston,	johnstonv	419-434-5	Johnston,		Accumula	Cleared		

Current COF Program

- Retention and Academic Support
  - Starfish
  - Intrusive Advising
    - Academic Advisor
    - Oiler Success Center



Recent Tracking Item Summary: Tuesday, April 24, 2018

7 flags included in this summary.

- To-Do: COF-Departmental Events
- To-Do: COF-Institutional Events
- To-Do: COF-Mentor Program
- To-Do: COF-Mentor Program
- To-Do: COF-Departmental Events
- To-Do: COF-Institutional Events
- COF-Below 3.0 Accumulative GPA: [redacted]

Subject: To-Do: COF-Departmental Events

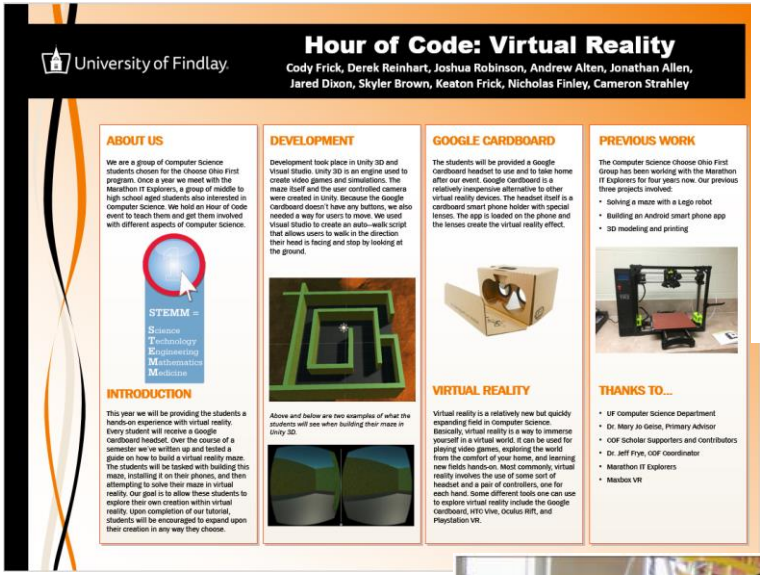
William Johnston has added a new To-Do to your student folder. Below you will find the details of this task. If you have additional questions, please contact your advisor or go to Starfish to make an appointment.

1. **To-Do:** COF-Departmental Events

We care about your success!

Sincerely,

The Student Success Team



University of Findlay

Hour of Code: Virtual Reality

Cody Frick, Derek Reinhart, Joshua Robinson, Andrew Alten, Jonathan Allen, Jared Dixon, Skyler Brown, Keaton Frick, Nicholas Finley, Cameron Strahley

ABOUT US

We are a group of Computer Science students chosen for the Choose Ohio First program. Once a year we meet with the Marathon IT Explorers, a group of middle to high school aged students also interested in Computer Science. We hold an Hour of Code event to teach them and get them involved with different aspects of computer science.

STEMM =
Science
Technology
Engineering
Mathematics
Medicine

INTRODUCTION

This year we will be providing the students a hands-on experience with virtual reality. Every student will receive a Google Cardboard headset. Over the course of a semester we've written up and tested a guide on how to build a virtual reality maze. The students will be tasked with building this maze, installing it on their phones, and then attempting to solve their maze in virtual reality. Our goal is to allow these students to explore their own creation within virtual reality. Upon completion of our tutorial, students will be encouraged to expand upon their creation in any way they choose.

DEVELOPMENT

Development took place in Unity 3D and Visual Studio. Unity 3D is an engine used to create video games and simulations. The maze itself and the user controlled camera were created in Unity. Because the Google Cardboard doesn't have any buttons, we also needed a way for users to move. We used Visual Studio to create an auto-walk script that allows users to walk in the direction their head is facing and stop by looking at the ground.

Above and below are two examples of what the students will see when building their maze in Unity 3D.

GOOGLE CARDBOARD

The students will be provided a Google Cardboard headset to use and to take home after our event. Google Cardboard is a relatively inexpensive alternative to other virtual reality devices. The headset itself is a cardboard smart phone holder with special lenses. The app is loaded on the phone and the lenses create the virtual reality effect.

VIRTUAL REALITY

Virtual reality is a relatively new but quickly expanding field in Computer Science. Basically, virtual reality is a way to immerse yourself in a virtual world. It can be used for playing video games, exploring the world from the comfort of your home, and learning new fields hands-on. Most commonly, virtual reality involves the use of some sort of headset and a pair of controllers, one for each hand. Some different tools one can use to explore virtual reality include the Google Cardboard, HTC Vive, Oculus Rift, and Playstation VR.

PREVIOUS WORK

The Computer Science Choose Ohio First Group has been working with the Marathon IT Explorers for four years now. Our previous three projects involved:

- Solving a maze with a Lego robot
- Building an Android smart phone app
- 3D modeling and printing

THANKS TO...

- UF Computer Science Department
- Dr. Mary Jo Geise, Primary Advisor
- COF Scholar Supporters and Contributors
- Dr. Jeff Frye, COF Coordinator
- Marathon IT Explorers
- Maxbox VR

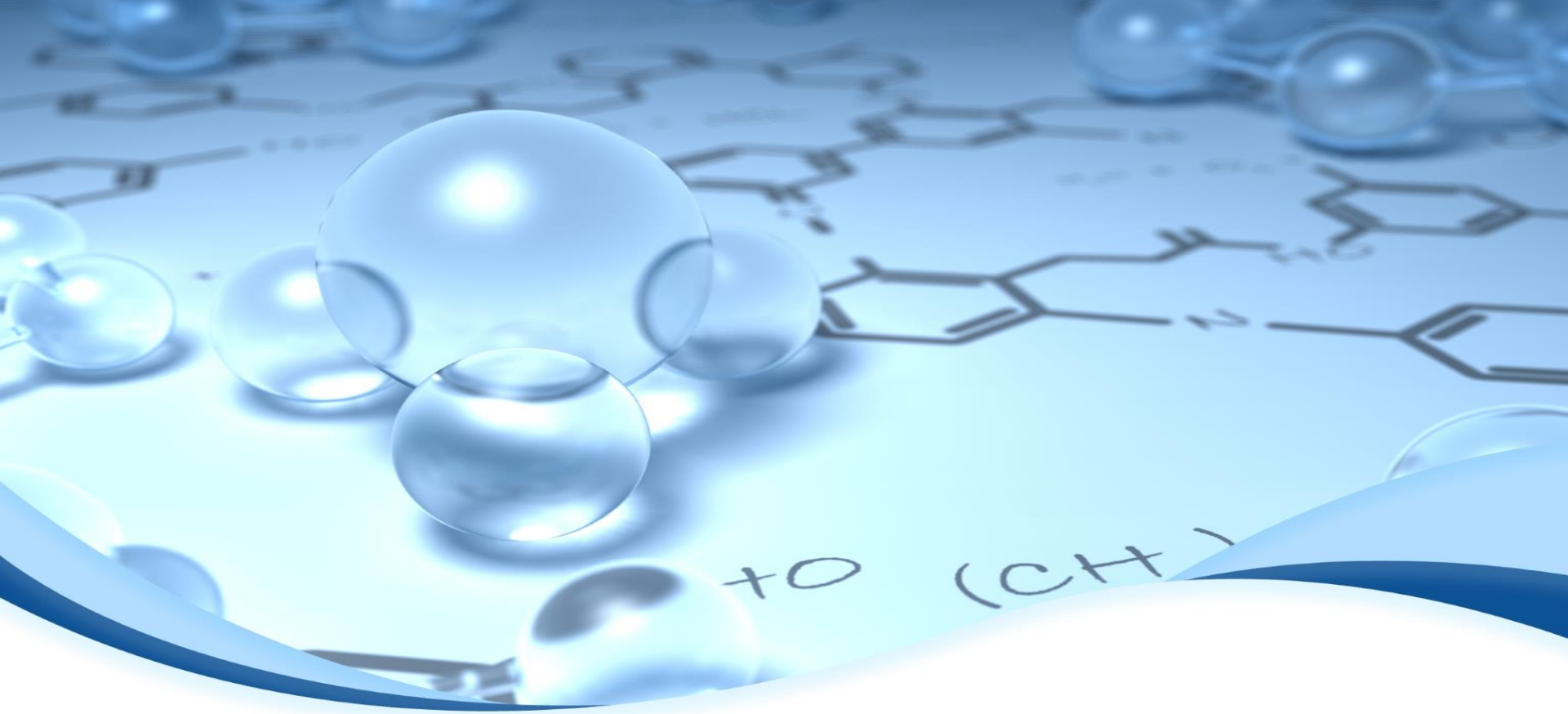
Dr. Geise & Dr. Schneider,

I wanted to let you both know that I have accepted an offer from Crown Equipment Corporation in New Bremen, Ohio as an Embedded Software Engineer. If you are unfamiliar with the company, they manufacture fork lifts and provide warehouse solutions. I'm not sure exactly which team I'll be on yet, but I will be writing and testing software that goes in to the fork lifts. Also, I will actually be a part of the engineering department, rather than IT.

Thank you both for all of your help along the way. Choosing UF and the computer science major was the best decision I could've made. I've had multiple offers and can find opportunities in so many different areas within IT and engineering. I am so appreciate of the faculty and staff and everyone else that made both my personal and learning experiences so fantastic at UF.

Thanks again,

Questions?



Choose Ohio First STEM Scholars Program

Baldwin Wallace University

Dr. Jim McCargar & Katie Adkins M.Ed.

Baldwin Wallace University

BW undergraduates (approximate figures from Fall 2017 data)

- 3,208 undergraduates
- 54% female; 46% male
- 21% diversity
- 15% first generation
- 34% first-year cohort Pell-eligible
- 26% incoming first-year indicated STEM path

Associate to Bachelors Transfer Model

A2BW

- Streamlines completion bachelor's degree
- Guaranteed junior standing with core curriculum complete from associate degree
- Any regionally accredited college or university –recognizes all the credit earned in associate degree
- Relationship building with LCCC and Tri-C
- A2BW Pathways - Curricular guides for Tri-C

Associate to Bachelors Transfer Model

Relationship Building

Honors Program Articulation

On-Site Recruiting at Community Colleges

- Fall 2017 Recruiting with Admission Team
- Spring 2018 Faculty Problem Solving; Honors Symposium

STEMM at Tri-C® presents:

Ed Meyer, Ph.D.

Chair, Dept. of Physics
Baldwin Wallace University
and
Founder, Gedanken Institute for Problem-Solving

"Becoming a Contributing Citizen"

Never before in the history of humankind have the lives of people in one generation been so different from those of their grandparents, and never before has the percentage of citizens who fail to function as vital, contributing members of society been higher. What is the cause of this shift? What are the skills needed to live a purposeful life as a contributing citizen? In his interactive talk, Dr. Meyer will attempt to answer both these questions, supporting his theory with compelling evidence and examples.

Wednesday, February 28 - 2:30pm

WSS 04 A (lower level of the Galleria)

Tri-C Western Campus

11000 Pleasant Valley Road, Parma, OH 44130
http://www.tri-c.edu/campuses-and-locations/western-campus/images/westmap.jpg

Free and open to the public

Complimentary pizza and soft drinks provided

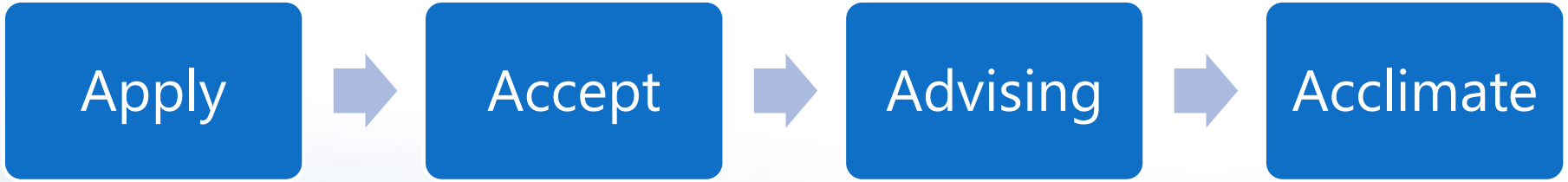
Approved for one (1) Honors Program Activity Point

2017-2018 Cohort

Choose Ohio First – Transfer participants (2017-18)

First	Transfer	Major	City	Race/ethnicity	Adult (23+)	First-Gen	Pell-eligible
Shelby	LCCC	Neuroscience	Wellington	Caucasian	Traditional	Not First-Gen	N
Christina	LCCC	Biology	Lorain	Hispanic/Latinx	Traditional	First-Gen	Y
Juley	Tri-C	Biology	Strongsville	Caucasian	Traditional	First-Gen	Y
Carlos	Tri-C	CNSA	Brook Park	Hispanic/Latinx	Adult	First-Gen	Y
Bethany	Tri-C	Biology	Lakewood	Caucasian	Adult	First-Gen	Y
Kenneth	Tri-C	CNSA	Lakewood	Caucasian	Adult	First-Gen	Y
Colin	Tri-C	Biology	Strongsville	Caucasian	Adult	Not First-Gen	Y
Sarah	Tri-C	Chemistry	Strongsville	Caucasian	Adult	First-Gen	Y
Alexandria	Tri-C	Biology	Berea	Caucasian	Adult	First-Gen	Y

Understanding the Transfer Process



- **Address Early Concerns**: credit transfer & campus resources, adjustment to new social and academic environments
- **Transfer Shock**: Temporary decline in GPA during the initial transition period to a new institution

Early Support for Transfer Students

Before Admitted

- Communicate through phone/email as prospective student
- Invitation to events and coaching before applying to program

Summer Transfer Orientation

- Before semester begins - Financial Aid & STEM Scholars Program

Transfer STEM Scholars Orientation

- Introduce academic and support service resources
- Establish academic, professional, and personal goals

Mentoring for Transfer Students

Success Coaching

- 2 coaching sessions a semester in their first year
- Encourage involvement (research, service, leadership)

Faculty Mentoring

- Resources on building relationships with faculty

Peer Mentoring

- Connect to junior and senior STEM Scholars through COF program events and STEM courses

Senior Exit Survey

Data Collection Source

- Electronic Survey Tool using Choose Ohio First Annual Report for template
- Students accustomed to spring progress reporting

Timeframe

- Open window in April – close before finals (2 weeks to complete)
- Reminders with links to students who have **NOT** completed

Senior Exit Survey - NEW

Senior Focus Groups
- Not mandatory
- Breakfast/lunch for program feedback

Follow Up
- Communicate with those who did not report
- Collaborate with Career Services on Student Outcome Survey
- Connect with LinkedIn Group

Baldwin Wallace University

Questions?

- What questions may we answer for you today?

COLUMBUS STATE
COMMUNITY COLLEGE

May 18, 2018

Choose Ohio First:

Recruiting, Retention/Advising
2+2 transfer partnerships

Laura Shady, MS Academic Advisor, STEM Program Coordinator
lshady@cscc.edu

Merideth Sellars, MS, Associate Professor, COF PI
msellars@cscc.edu

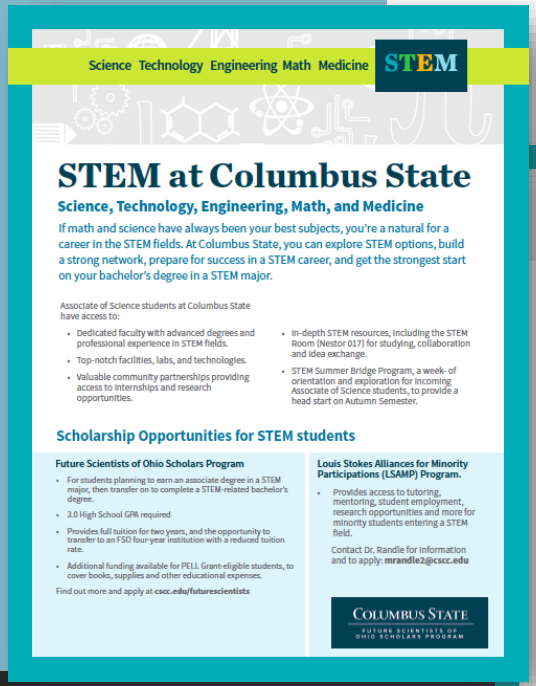
Recruitment

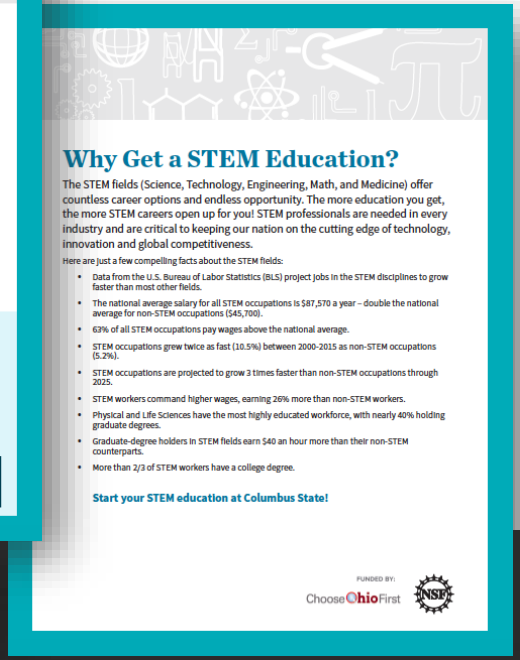
- College Admissions Events/Visit Days
- STEM Community Outreach Events
- Advisory Board Committees
- High School Math and Science Teachers
- Current FSO Scholars

Recruitment

- Website
- Social media
- Targeted email to admitted students

Marketing

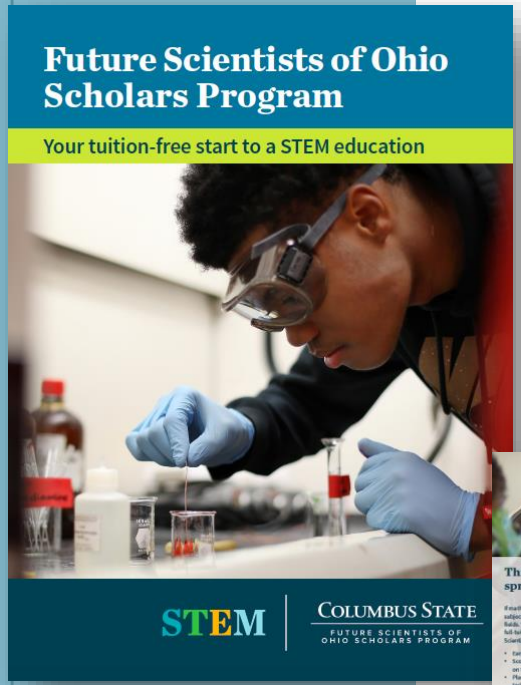


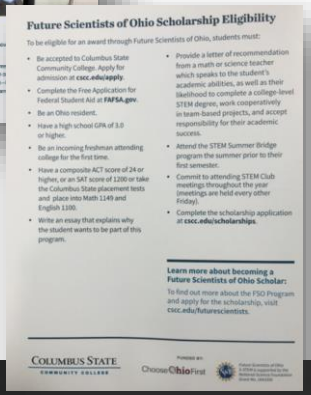


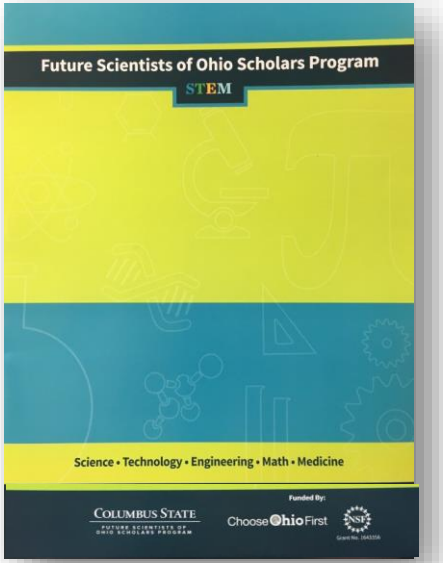
- Brochures
- One page facts about “STEM”
- Customized folders

Marketing

- Brochures
- One page facts about “STEM”
- Customized folders







Retention

STEM Summer Bridge Program

- Establish peer support networks
- Develop time management and study skills
- Identify campus resources
- Provide remediation

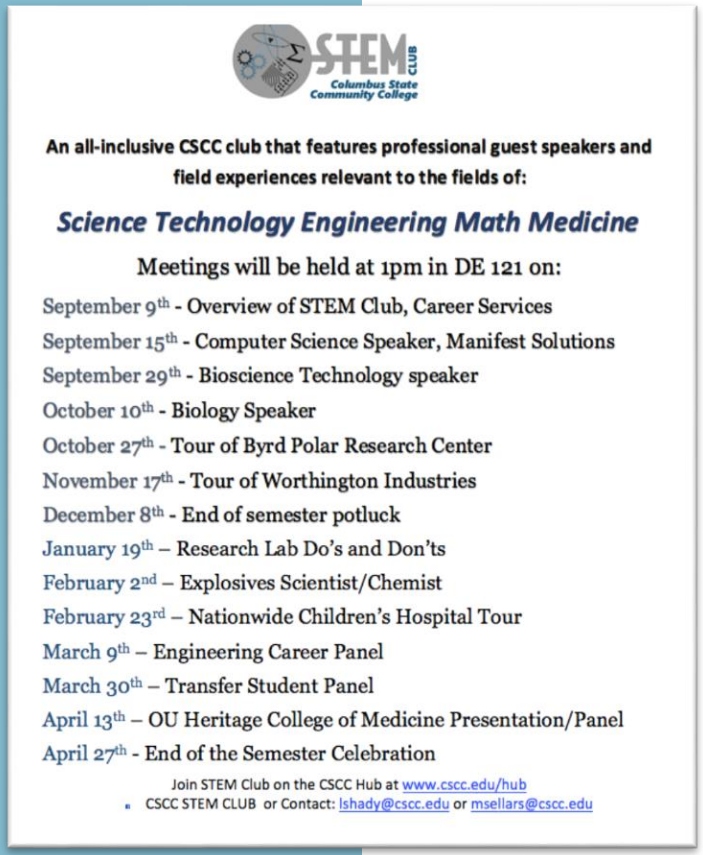
Retention

STEM Club

- Explore STEM career pathways
- Provide career networking opportunities
- Community outreach
- STEM related field trips

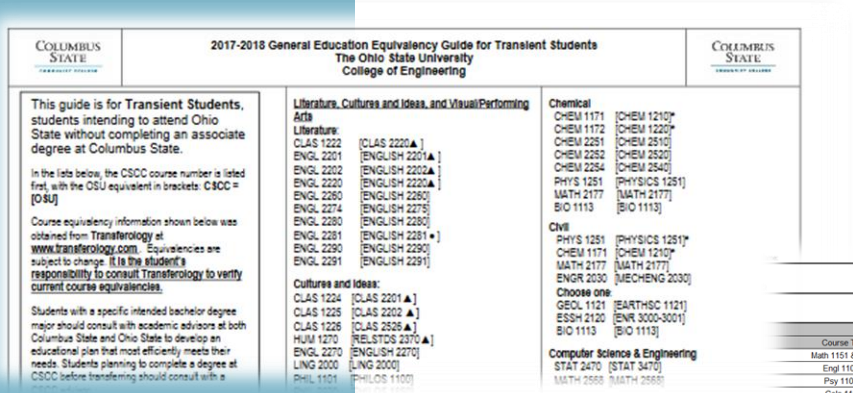
Retention

STEM Club



- Explore STEM career pathways
- Provide career networking opportunities
- Community outreach
- STEM related field trips

Advising



COLUMBUS STATE

2017-2018 General Education Equivalency Guide for Transient Students
The Ohio State University
College of Engineering

COLUMBUS STATE

This guide is for **Transient Students**, students intending to attend Ohio State without completing an associate degree at Columbus State.

In the lists below, the CSCC course number is listed first, with the OSU equivalent in brackets: **CSCC = [OSU]**

Course equivalency information shown below was obtained from **Transferology** at **www.transferology.com**. Equivalencies are subject to change. **It is the student's responsibility to consult Transferology to verify current course equivalencies.**

Students with a specific intended bachelor degree major should consult with academic advisors at both Columbus State and Ohio State to develop an educational plan that most efficiently meets their needs. Students planning to complete a degree at CSCC before transferring should consult with a

Literature, Cultures and Ideas, and Visual/Performing Arts

Literature:
CLAS 1222 [CLAS 2220▲]
ENGL 2201 [ENGLISH 2201▲]
ENGL 2202 [ENGLISH 2202▲]
ENGL 2220 [ENGLISH 2220▲]
ENGL 2260 [ENGLISH 2260]
ENGL 2274 [ENGLISH 2275]
ENGL 2280 [ENGLISH 2280]
ENGL 2281 [ENGLISH 2281●]
ENGL 2290 [ENGLISH 2290]
ENGL 2291 [ENGLISH 2291]

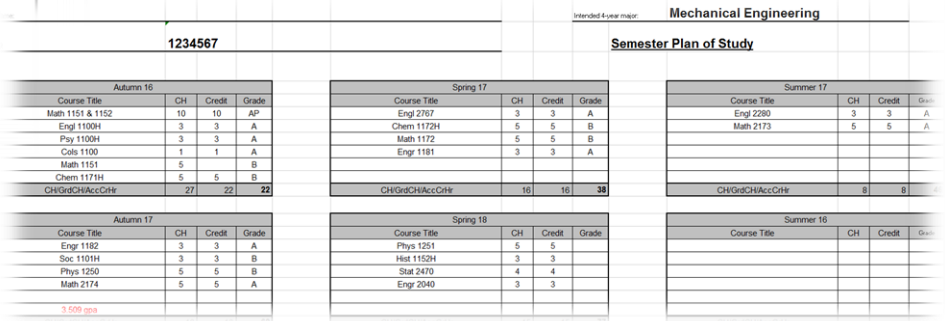
Cultures and Ideas:
CLAS 1224 [CLAS 2201▲]
CLAS 1225 [CLAS 2202▲]
CLAS 1226 [CLAS 2525▲]
HUM 1270 [RELSTDS 2370▲]
ENGL 2270 [ENGLISH 2270]
LING 2000 [LING 2000]
PHIL 1101 [PHILOS 1100]

Chemical
CHEM 1171 [CHEM 1210]*
CHEM 1172 [CHEM 1220]*
CHEM 2251 [CHEM 2510]
CHEM 2252 [CHEM 2520]
CHEM 2254 [CHEM 2540]
PHYS 1251 [PHYSICS 1251]
MATH 2177 [MATH 2177]
BIO 1113 [BIO 1113]

Civil
PHYS 1251 [PHYSICS 1251]*
CHEM 1171 [CHEM 1210]*
MATH 2177 [MATH 2177]
ENGR 2030 [MECHENG 2030]
Choose one:
GEOL 1121 [EARTHSC 1121]
ESSH 2120 [ENR 3000-3001]
BIO 1113 [BIO 1113]

Computer Science & Engineering
STAT 2470 [STAT 3470]
MATH 2568 [MATH 2568]

- Dedicated academic advisor
- Customized plan of study
- Transfer planning



Intended 4-year major: **Mechanical Engineering**

1234567 — **Semester Plan of Study**

Autumn 16			
Course Title	CH	Credit	Grade
Math 1151 & 1152	10	10	AP
Engl 1100H	3	3	A
Psy 1100H	3	3	A
Cols 1100	1	1	A
Math 1151	5		B
Chem 171H	5	5	B
CH/GrdCH/AccCrHr	27	22	22

Spring 17			
Course Title	CH	Credit	Grade
Engl 2767	3	3	A
Chem 172H	5	5	B
Math 1172	5	5	B
Engr 1181	3	3	A
CH/GrdCH/AccCrHr	16	16	38

Summer 17			
Course Title	CH	Credit	Grade
Engl 2280	3	3	A
Math 2173	5	5	A
CH/GrdCH/AccCrHr	8	8	

Autumn 17			
Course Title	CH	Credit	Grade
Engr 1182	3	3	A
Soc 1101H	3	3	B
Phys 1250	5	5	B
Math 2174	5	5	A
3.509 gpa			

Spring 18			
Course Title	CH	Credit	Grade
Phys 1251	5	5	
Hist 1152H	3	3	
Stat 2470	4	4	
Engr 2040	3	3	

Summer 18			
Course Title	CH	Credit	Grade

2 + 2 Partnerships

COLUMBUS STATE

PREFERRED PATHWAY

Future Scientists of Ohio

= COF Partnership with OSU

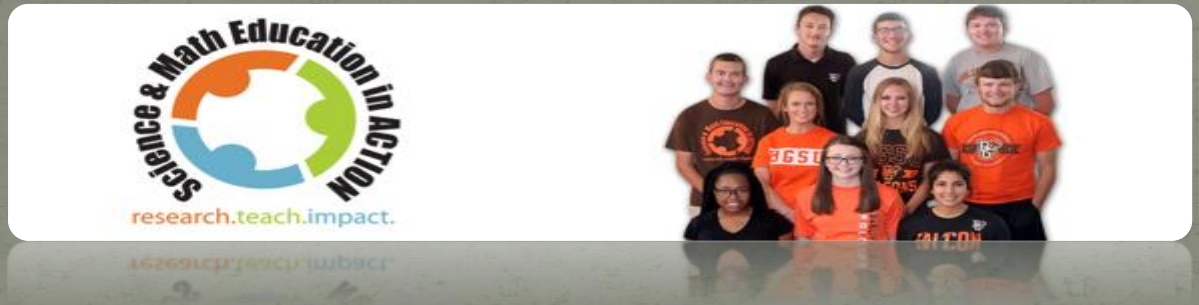
COLUMBUS STATE

PREFERRED PATHWAY

Thanks.

Choose Ohio First

Science and Math Education in ACTION



Daniel J. Brahier, PhD
Bowling Green State University
Friday, May 18, 2018
Internet: bgsu.edu/action

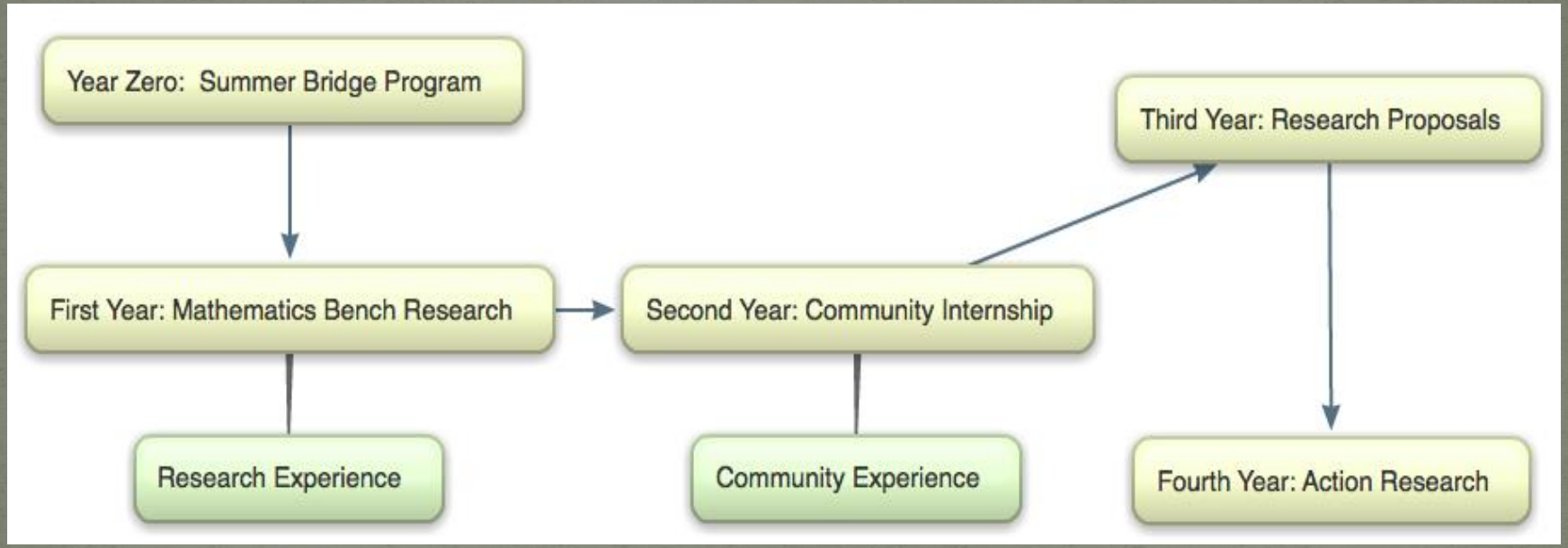
Science and Math Education in ACTION

- Program began in 2009
- Targeted at Middle Childhood and Secondary Mathematics and/or Science Education majors
- Approximately 25 students per year (in cohorts)

Participant Selection

- Minimum Requirements: ACT ≥ 23, GPA ≥ 3.00
- Application that includes essays, listing of activities, recommendation letter
- Applications are rated and ranked numerically
- Interviews – for top candidates (by FaceTime)
- Final Decisions based on online application and interview
- Cohort 10: 3.99 GPA, 27 ACT

Program Components



Program Components

- Summer Bridge (3-4 weeks, before freshman year)
- Freshman Research Project (pure math or science research in teams)
- Sophomore Practicum Internship (community)
- Junior/Senior Capstone Project (action research)
- Other features, such as presentations, professional development, living/learning community, field trips, and social activities

ACTION/COF Newsletter

- Published 8 times/year (Sept, Oct, Nov, Dec/Jan, Feb, Mar, Apr, May)
- Sent to nearly 600 (students, families, alumni, administrators, faculty, “friends” of ACTION
- Director’s column
- Updates on each cohort
- Spotlights on individual students
- Birthdays

Field Trips

Field Trips - Examples

- C.O.P.E. Course at Camp Miakonda – team building low-ropes course (optional high-ropes in academic year)
- Toledo Mud Hens Baseball Game – follow up to hands-on statistics session
- Trapped Toledo – team experience to solve clues to "break out" of room
- Toledo Zoo – overnight adventure during Summer Bridge and team building high ropes course during academic year
- Bowling - fun social event during Summer Bridge
- Imagination Station – hands-on science center

Living/Learning Community

Living Community

- FIRST YEAR SCHOLARS
- On average, more than half of our incoming freshman scholars choose to live in the ACTION Theme Community each year
- Out of 28 Cohort 9 freshman scholars, 20 lived on the floor (~75%) during the 2017-18 academic year

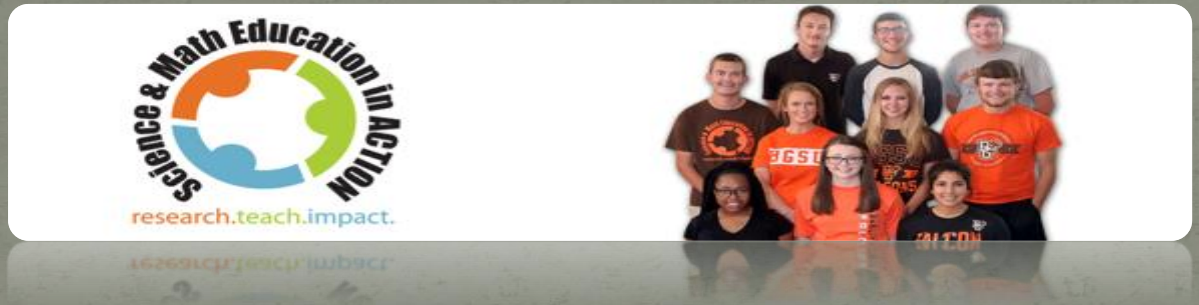
- RETURNING SCHOLARS
- Each year, nearly 1/3 of returning scholars elect to remain on the ACTION floor
- Several scholars have lived in the ACTION Theme Community for 4 years
- For the upcoming 2018-19 academic year, 60% of the rising sophomores plan to stay on the floor (15/25)

Benefits of ACTION Theme Community

- Deepen friendships though the tight-knit community
- Study groups and collaboration with other highly ambitious and motivated students
- Interaction with older students for guidance and mentorship
- Residence hall in close proximity to the buildings where most of the science and mathematics courses are held

"I look forward to my first year as a teacher. I wrote lesson plans, attended in-service workshops, and decorated my classroom. Preparation is half the victory. It's the other half that concerns me."

Science and Math Education in ACTION



Daniel J. Brahier, PhD
Bowling Green State University
Friday, May 18, 2018

Thank you for joining!

Networking Meeting
Additional Notes from Discussion and Questions
Friday, May 18, 2018

University of Akron Presentation:

- Two COF recruiters – targeting high school students in their junior and senior years
    - Individual Success Plan for students – If students check one of several boxes (Pell Grant Recipient, First Generation College Student, English Learner, Veteran, etc.), it alerts the COF team that these could serve as potential sources of difficulty for students. UA uses this information to provide needed support to students.
    - Summer Bridge program funding: Students/families pay for books and food, but the university funds the rest of the program.
        - ❖ This year 47 students enrolled in the Bridge Program
        - ❖ Not all COF Scholars are required to enroll in the Summer Bridge Program
        - ❖ Classes Offered: English Comp., Math, Intro to Public Speaking, Human Diversity

Youngstown State University Presentation:

- "Math preparation is the most important enabler or impediment to success in STEM disciplines." – Focus on "pre-calculus readiness" and "calculus readiness."
- Biggest gap between Algebra II and Pre-Calculus so summer bridge addresses the gap through curriculum
- Summer Bridge Programs is for High School students – The students are responsible for their own transportation
    - Students must have taken Algebra II and received a C or above to get into the program (usually sophomores, but could be at any grade level).
- COF scholars sign a COF contract
- 25 faculty members who mentor research teams

Muskingum University Presentation:

- Science Mentoring Program consists of COF upperclassmen who are asked to be a part of the program – they do not apply. Their business cards are then placed in the science building to be selected by any students at the school – not just COF students
    - Training for student mentors: informal conversations and regular check-ins
    - Student mentors are not paid, but tutors are paid

University of Findlay Presentation:

- Strong business partnerships that they sought out by university: Corporate Mentors, Advisory Boards, Internships and Co-ops
- Corporate/Professional Mentorship program created discussion of the creation of COF Alumni Mentorship programs and maintaining COF Alumni connections by institution and statewide

Baldwin Wallace University Presentation:

- Senior Focus Groups for COF Scholars allow the program coordinators to ask open-ended questions and give the scholars a chance to have their voices heard.
    - Discussion of the focus groups possibly helping with COF alumni relations by allowing them to have their voices heard and forming a lasting connection with the program.

Columbus State Community College Presentation:

- Marketing materials for COF
    - Ask scholars how they found out about the scholarship – this information helped CSCC with marketing decisions
    - Had more applicants this year than any year before – believed to be directly impacted by COF updated marketing materials such as folders and brochures.
    - Community Colleges often have difficulty explaining who is eligible for the COF scholarship, so this information is broken down in marketing materials.
- Focus on different career paths because many students do not know the different career paths available to them in STEM.
- Students are interviewed and asked about their intentions before transferring to a 4-year institution (such as COF partner OSU). This information is used when tracking students.

Bowling Green State University Presentation:

- Publishes a quarterly newsletter of COF updates sent to 600 contacts including current scholars, community members, parents and alumni