



Choose hio First

Networking Meeting

Friday, October 18, 2019

 Department of
Higher Education

 OhioHigherEd.org



Choose  **Ohio** First



Program Overview

- The Choose Ohio First Scholarship Program is a state-funded program intended to increase numbers of students graduating in **Science, Technology, Engineering, Mathematics and Medicine (STEMM)**.
- Annual scholarship awards range from \$1,500 to \$7,955 per year
 - Renewable up to 8 semesters based on continued eligibility and state funding
 - Students DO NOT need to re-apply
 - The actual amount is based on a student's financial need (not merit or any other criteria)
- Support and enrichment opportunities are provided
 - Cohort advisors
 - Engagement offerings may include advising, tutoring, peer mentoring, support for undergraduate research, and exposure to community service opportunities
 - Social activities

Eligible Majors at CSU

College of Sciences and Health Professions

- Biology
- Chemistry
- Environmental Science
- Health Sciences
- Mathematics
- Pharmaceutical Sciences
- Physics
- Speech and Hearing

Washkewicz College of Engineering

- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Mechanical Engineering

School of Nursing

- Nursing

***** Students planning to pursue a pre-professional track must select and remain enrolled in an above indicated major***

Applying for the Scholarship

- Students apply online via our website
 - Freshman application
 - Transfer application
- The application typically opens early November
- The committee reviews applications on a rolling basis
- Accepted students need to send back a signed/dated commitment form to secure their spot

<https://www.csuohio.edu/choose-ohio/choose-ohio>



Criteria to be Considered

- Be an entering freshman or transfer student.
(Current students and post-bacs are INELIGIBLE)
- Be an Ohio resident
- Have an undergraduate degree plan for an approved STEMM major
- Have a high school grade point average of 3.25 or higher, or ACT score of 27 or higher, or SAT score of 1300 or higher
- Agree to adhere to COF program requirements
- Not already be receiving a full scholarship
- Have a current FAFSA on file

COF Program Expectations

- Complete 15 credit hours per semester
- Attend at least 5 cohort meetings per semester
- Complete a Research Poster annually
- Maintain a 3.25 or better Cumulative GPA
- Have a graduation plan approved by advisor
- Meet with advisor at least once a semester
- Complete Upper Division Program requirements



Starfish Indicator

- Overview
- Info**
- Success Plans
- Courses
- Tracking
- Meetings
- Notes

Admissions

High School GPA 4.24

ACT Composite: 27

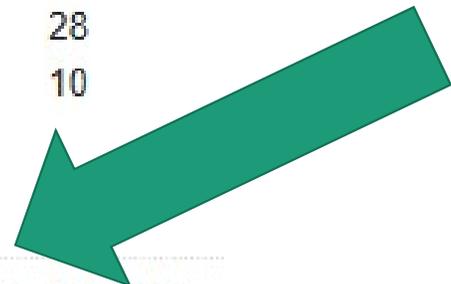
ACT Math: 29

ACT English: 28

ACT Writing: 10

Cohorts

Choose Ohio First/STEM Fellows, Scholars



6 Different Divisions

- Life Sciences
(Underclassmen)

- Math
(Underclassmen)

***Weekly meetings held during common hour

- Nursing
(Under and Upperclassmen)

- Internship/Service
(Upperclassmen)

- Grand Challenges
(Upperclassmen)

- Research/Science Outreach
(Upperclassmen)

Blackboard Shells

- ▼ Choose Ohio First-Success in Math
- Announcements
- "Assignments"
- Meeting
- PowerPoints/Notes
- Event Calendar
- Poster Project Resources
- Groups
- Discussions
- Email
- My Grades
- Homepage

Calendar

Today: March 2019

USERNAME	APR 25	MAY 2	POSTER PRESENTATION	SUBMISSION OF POSTER FOR PRINTING (ASSIGNMENT FOUND UNDER GROUPS TAB)	GROUP MEMBER SUBMISSION (DUE 11-1-18)	ADVISOR AND TENTATIVE TOPIC SUBMISSION (DUE 11-21-18)	SPRING 2019 PROOF OF ADVISING
2666145	--	1.00	1.00	1.00	1.00	1.00	1.00

Choose Ohio First Original Course View
[Multiple Instructors](#) | [More info](#) ▼

Choose Ohio First - Life Sciences Original Course View
[Multiple Instructors](#) | [More info](#) ▼

Choose Ohio First Nursing Original Course View
 Private | [Multiple Instructors](#) | [More info](#) ▼

Choose Ohio First-Success in Math Original Course View
[Multiple Instructors](#) | [More info](#) ▼

Community Choose Ohio First-Grand Challenges Original Course View
 Private | [Multiple Instructors](#) | [More info](#) ▼

Community Choose Ohio First-Internship/Service Original Course View
[Multiple Instructors](#) | [More info](#) ▼

Community Choose Ohio First-Research/Science Outreach
[Multiple Instructors](#) | [More info](#) ▼

Community_STEM_Fellows Original Course View
[Multiple Instructors](#) | [More info](#) ▼



STEM Fellows – Living Learning Community

- Choose Ohio First scholars who live on our specifically designated floor in Fenn Tower are referred to as “STEM Fellows”
- We provide additional programming and activities (i.e.- game nights, welcome party)
- They take a special section of ASC101 co-taught by Dr. Margolius & Dr. Holland (Tuesday’s 5:00-5:50pm)
- A limited number of need based scholarships are available to help with the additional associated costs of living on campus
- Students indicate their interest on the COF application as well as their housing application



Enrolled Scholars by College as of Fall 2019

	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Total
School of Nursing	0	0	19	12	14	45
Washkewicz College of Engineering	2	7	29	35	43	116
College of Sciences and Health Professions	0	5	37	39	34	115
Total	2	12	85	86	91	276



Retention Comparisons for First Time Full Time Freshmen

Fall 2015, Fall 2016 and Fall 2017 Cohorts

	Still enrolled or graduated by 3 rd , 5 th or 7 th semester			Number of Students in Cohort		
	S03	S05	S07	Fall 2017	Fall 2016	Fall 2015
All CSU First Time FT Frosh	71%	58%	55%	1923	1892	1846
Choose Ohio First	96%	93%	84%	81	15	25
Honors	96%	95%	98%	36	39	41
Presidential Scholars	91%	83%	78%	124	117	123
Provost Scholars	85%	75%	73%	221	219	248



Industry Partner Involvement

- Cleveland Clinic/ Lerner Research Institute
- National Risk Management Services
- Rockwell Automation
- National Interstate Insurance
- Deloitte Consulting LLP
- Swagelok
- Quanto Solutions
- The Austin Company
- Sherwin Williams

Spring 2019 Industry Advisory Council Meeting was held on Thursday, March 28th



Rockwell
Automation

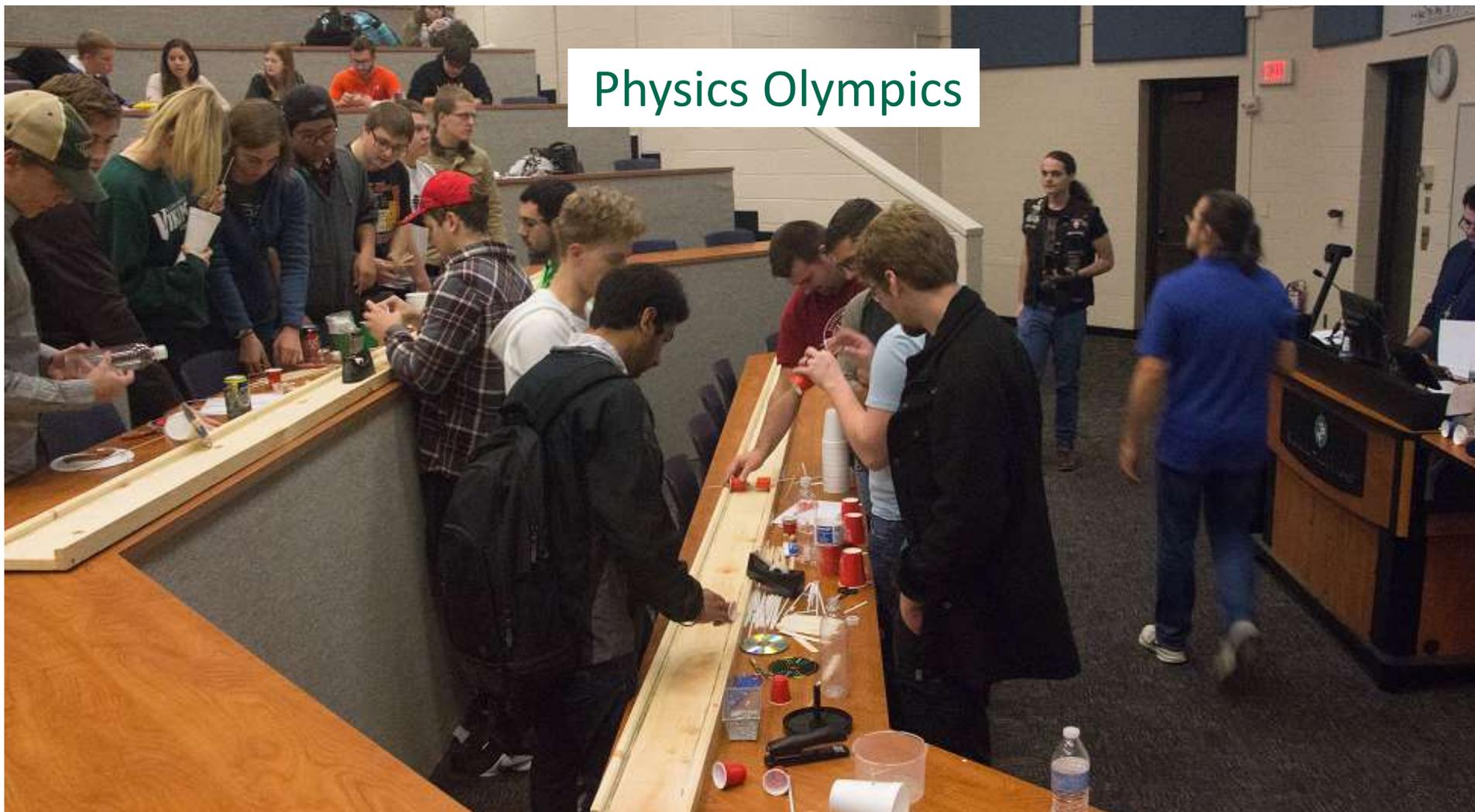
Going Forward

- 91 new freshman and transfer students joined in Fall 2019
- 276 scholars as of Fall 2019
- Expansion of “upper division” cohorts

Student Comments

- This scholarship has made college MUCH more affordable. I am endlessly grateful for this scholarship as it has allowed me to work less hours to pay for school and be able to focus on my academics and be more active on campus!
- I really enjoyed the networking opportunities Choose Ohio First presented. Not only was I able to connect with my peers to start on a research project, but I was able to talk to some people in similar fields that I am interested in, as well as hearing about different companies that they worked for. [COF] really improved my sense of fellowship at CSU.
- I loved being in COF during my first semester! The meetings were always very informing, and something I looked forward too. It was helpful to attend them to find out how to improve myself as a student.

Physics Olympics



Beach Clean-up Day



Poster Sessions



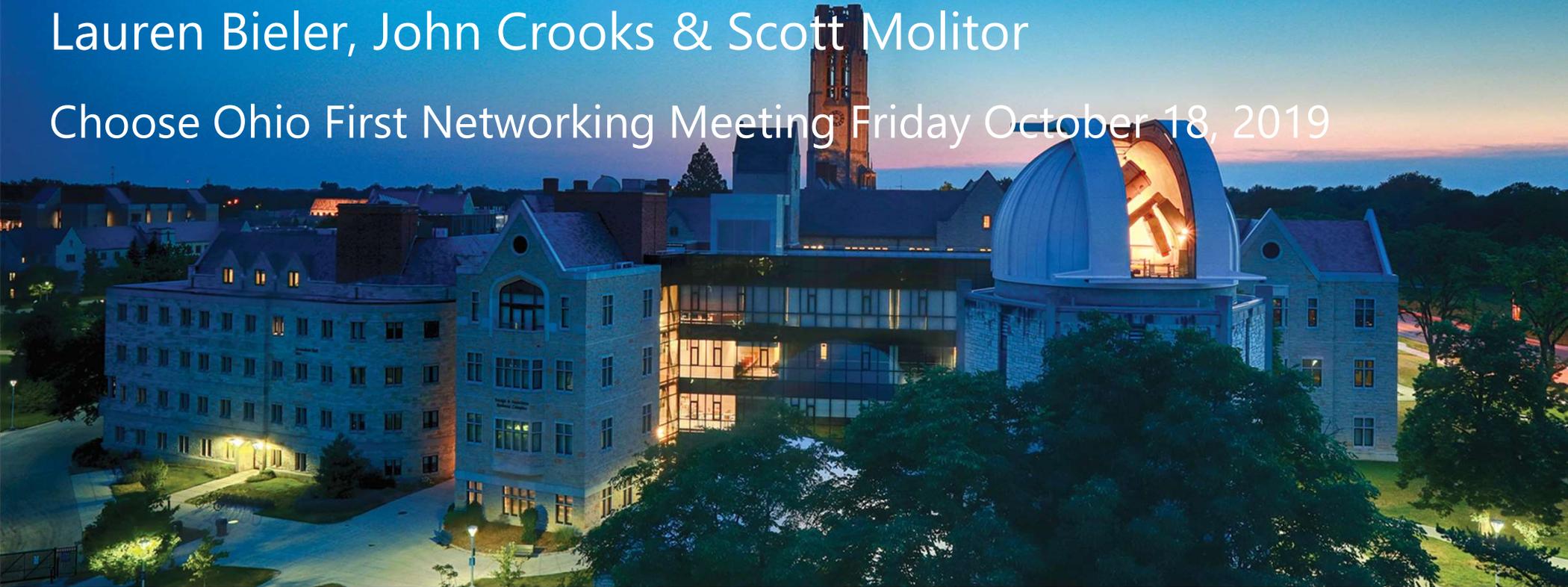
Questions?

Thank You!

LORAIN / UTOLEDO COMPUTER SCIENCE PARTNERSHIP PROGRAM

Lauren Bieler, John Crooks & Scott Molitor

Choose Ohio First Networking Meeting Friday October 18, 2019



LORAIN / UTOLEDO CSE PROGRAM

- Joint program started in 1999-2000 as part of Lorain's University Partnership Program
- Goal is to provide Lorain County residents access to 4 year CE & CS degree program
 - Low cost and convenient location
- Combination of transfer, on-site and interactive video distance learning courses
- 164 CSE and 58 CSET degrees awarded

LORAIN CHOOSE OHIO FIRST PROGRAMS

- Four funded Choose Ohio First programs (8.13, 16.21, 16.32 and 16.68)
- Encourage Lorain students to complete four year University Partnership Program (UPP) degrees
- Fund students in 4-year UPP degrees offered with Akron, Hiram College, Kent State & UToledo
 - Includes UToledo CSE and CSET programs
- Includes new four year Mechatronics / MEMs degree offered through Lorain

LORAIN CHOOSE OHIO FIRST PROGRAMS

- LCCC has distributed over \$500k in COF funding
- COF scholarships augmented with funds from LCCC Foundation
- LCCC Foundation has provided scholarship funds for 20 years since inception of UPP
- Scholarships augmented with income earned by CSE students in mandatory co-op experiences

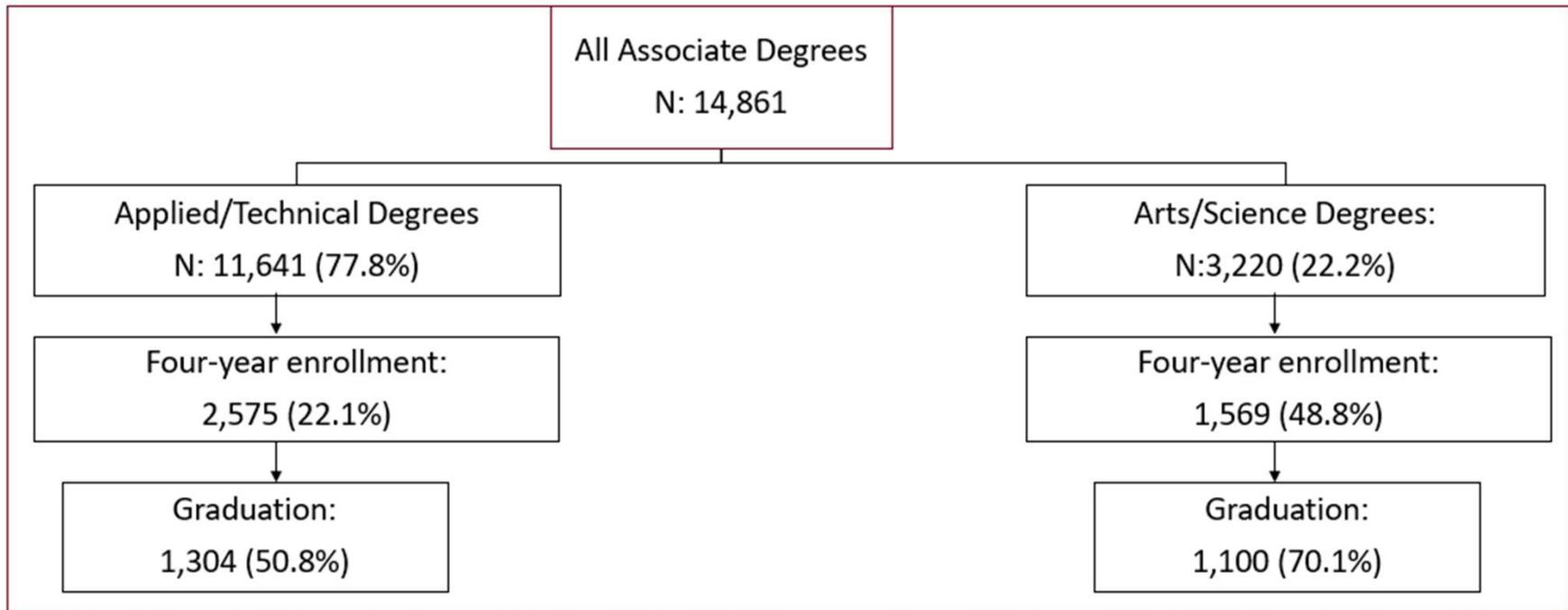
UTOLEDO CHOOSE OHIO FIRST PROGRAM

- Currently funded as Choose Ohio First for Engineering Entrepreneurship (16-68)
- Incentivize Engineering students to pursue training in Entrepreneurship
- Revised to include formal & extracurricular training in Professional Sales
- Partner with Lorain for Engineering programs outside of CSE and CSET

UTOLEDO CHOOSE OHIO FIRST PROGRAM

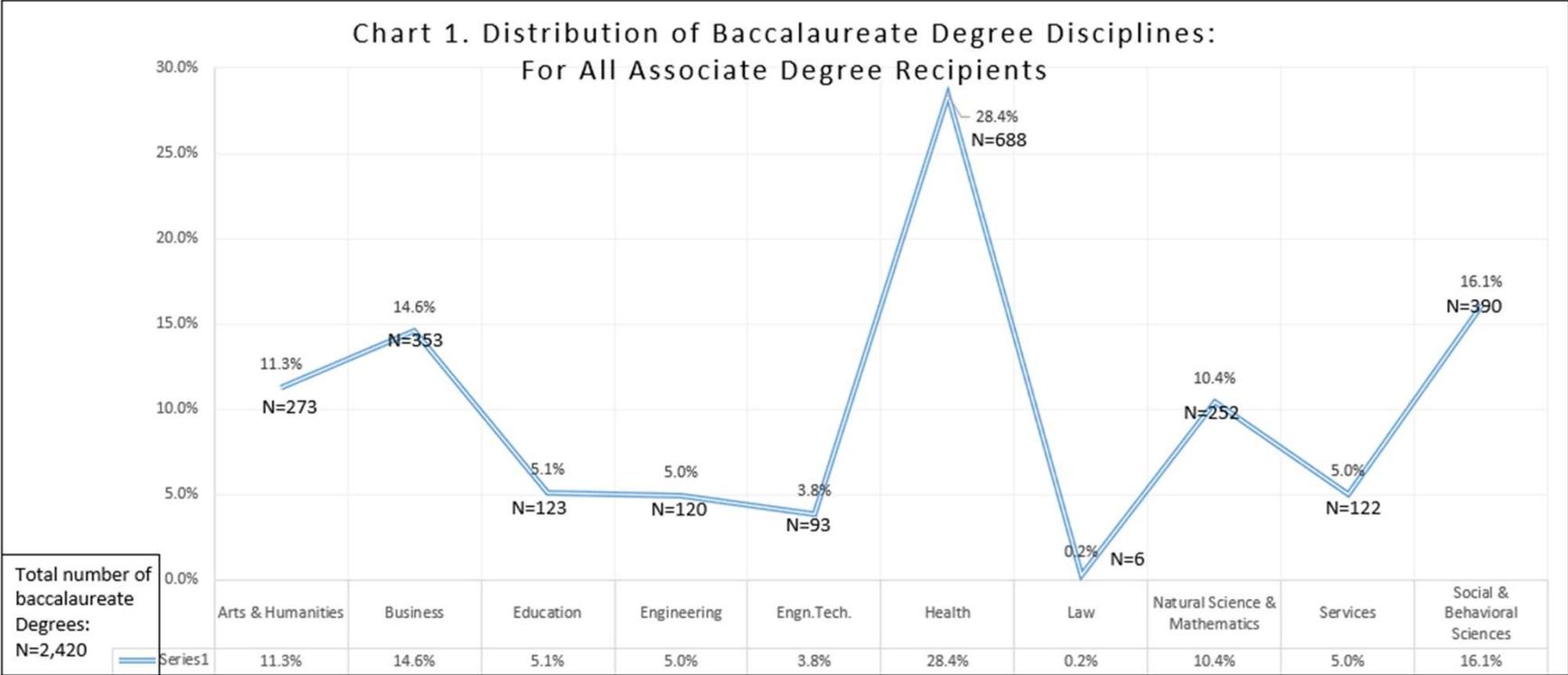
- 209 students funded since Fall 2009 (15 CSE, 6 CSET)
- 99 students have earned four-year degrees
 - 93 Engineering, 4 CSE, 2 CSET
 - 84 employed or pursuing adv. studies in STEMM
 - 65 employed or pursuing adv. studies in Ohio
- 350 co-op semesters completed by COFFEE scholars
 - Represents over \$1.8M in economic activity
 - Majority (~70%) co-ops completed in Ohio
- **Have not funded non-CSE or CSET Lorain students**

TRANSFER FROM 2-YR TO 4-YR PROGRAMS



Note: Four-year enrollment refers to attendance at Ohio public four-year main and regional campuses.

TRANSFER FROM 2-YR TO 4-YR PROGRAMS



Data provided by Shoumi Mustafa ODHE
11/27/17

TRANSFER FROM 2-YR TO 4-YR PROGRAMS

- Very few 2-year Engineering students go directly into 4-year Engineering programs
- Most graduates of 2-year Engineering programs are getting jobs
- Poses a challenge for 4-year Engineering programs recruiting 2-year students!

IMPROVING THE TRANSFER PIPELINE

- One potential audience is adult learners looking for career advancement
- Requires substantial changes to recruiting by 4-year Engineering schools
 - Less emphasis on HS visits & ACT/SAT scores
 - More emphasis on employers & CTE
- Requires substantial changes to 4-year Engineering degree programs
 - More evening, on-line and part-time programs

HOW CAN ODHE HELP?

- Working with adult learners requires flexibility
 - Pro-rated funding for part-time learners
 - Overall funding should be limited by dollars not semesters
- Most adult learners will need remediation in math and/or science for Engineering studies
 - Need more flexibility on qualifying majors
 - Need more flexibility on funding students after they arrive

HOW CAN ODHE HELP?

- Awarding more STEMM degrees to Ohio residents requires both recruiting & retention
- COF programs are focused on recruiting new students to STEMM programs
- Could use COF funds to address financial issues that ordinarily result in attrition
 - US DoEd/NCES – 2.5M students dropped out of public institutions with average of \$7k debt
- Could use COF funds to recruit-back students that dropped out and have college credit

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Building an Innovation Pipeline:
The Choose Ohio First Scholarship
Program at John Carroll

Dr. Rebecca Drenovsky

Program Director

Associate Dean for Graduate & Professional Programs

Professor of Biology

Overview

1. What is the mission of John Carroll?
2. What are our program goals?
3. Who is part of the team?
4. What are the program components?
5. What are our outcomes so far?



What is the mission of John Carroll?

As a Jesuit institution, JCU holds these values:

Caring for the whole person

Fostering a culture of reflection

Striving for rigorous, academic inquiry

Building a campus culture that promotes inclusion

Working towards a more just world



What are our program goals?

1. Developing reflective, intentional decision-makers
2. Cultivating social justice-minded leaders
3. Preparing career-ready STEMM professionals



Importance of the support team: Multiple campus partners

Leadership Team



Rebecca Drenovsky



Mark Waner

Enrollment & Financial Aid



Steve Vitatoe



Stacey Love



Claudia Wenzel

Advisory Board



Mike Martin



Kathy Lee



James Watling

Registrar



Michelle Reynard

Residence Life



Toya Fulbright



Eddie Carreon

Importance of support team: STEMM faculty, staff, & peer mentors



Helping students...



...reflect and grow

What are the program components?

1. \$3,640 scholarship
2. STEMM faculty advisor & peer mentors
3. STEMM-specific orientation and move-in week activities
4. Expanded cohort advising
5. One credit *Entering Research* course
6. Dedicated summer research fellowships for COF Scholars



Program components: Pre-matriculation

High touch with awardees

1. Welcome letter & mentor bios
2. Follow-up communications
3. Pre-enrollment in fall classes



Program components: STEMM-specific orientation & move-in week activities



Meeting
scientists at
CMNH

Sustainable
CLE tour

Biodiversity in CLE
with Dr. Sheil



Program components: STEM Living Learning Community

Dedicated floor for first year STEMM students

Immersive experience—where classmates are neighbors

“We’re one big group committed to helping each other succeed...help is just one knock away.” –Rome Ogeto



Program components: Expanded cohort advising

First year: Transition to college and opportunities at John Carroll

Second year: Sophomore slump

Third year: Taking stock & preparing to launch

Fourth year: Reflection & giving back



Program components: Expanded cohort advising

Example : Core values exercise

Abundance+	Dedication+	Kindness+	Professionalism+
Acceptance+	Dependability+	Knowledge+	Punctuality+
Accountability+	Diversity+	Leadership+	Relationships+
Achievement+	Empathy+	Learning+	Reliability+
Adventure+	Encouragement+	Love+	Resilience+
Advocacy+	Enthusiasm+	Loyalty+	Resourcefulness+
Ambition+	Ethics+	Making a Difference+	Responsibility+
Appreciation+	Excellence+	Mindfulness+	Responsiveness+
Attractiveness+	Expressiveness+	Motivation+	Security+
Autonomy+	Fairness+	Optimism+	Self-Control+
Balance+	Family+	Open-Mindedness+	Selflessness+
Being the Best+	Friendships+	Originality+	Simplicity+
Benevolence+	Flexibility+	Passion+	Stability+
Boldness+	Freedom+	Performance+	Success+
Brilliance+	Fun+	Personal Development+	Teamwork+
Calmness+	Generosity+	Proactive+	Thankfulness+
Caring+	Grace+	Professionalism+	Thoughtfulness+
Challenge+	Growth+	Quality+	Traditionalism+
Charity+	Flexibility+	Recognition+	Trustworthiness+
Cheerfulness+	Happiness+	Risk-Taking+	Understanding+
Cleverness+	Health+	Safety+	Uniqueness+
Community+	Honesty+	Security+	Usefulness+
Commitment+	Humility+	Service+	Versatility+
Compassion+	Humor+	Spirituality+	Vision+
Cooperation+	Inclusiveness+	Stability+	Warmth+
Collaboration+	Independence+	Peace+	Wealth+
Consistency+	Individuality+	Perfection+	Well-Being+
Contribution+	Innovation+	Playfulness+	Wisdom+
Creativity+	Inspiration+	Popularity+	Zeal
Credibility+	Intelligence+	Power+	
Curiosity+	Intuition+	Preparedness+	
Daring+	Joy	Proactivity	
Decisiveness			

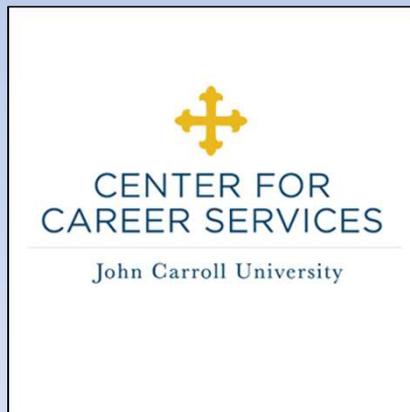


*Seek wisdom.
Act with empathy.
Promote inclusiveness.
Share my enthusiasm.
Support personal development.*

Adapted from Taproot (<http://www.taproot.com/archives/37771>)

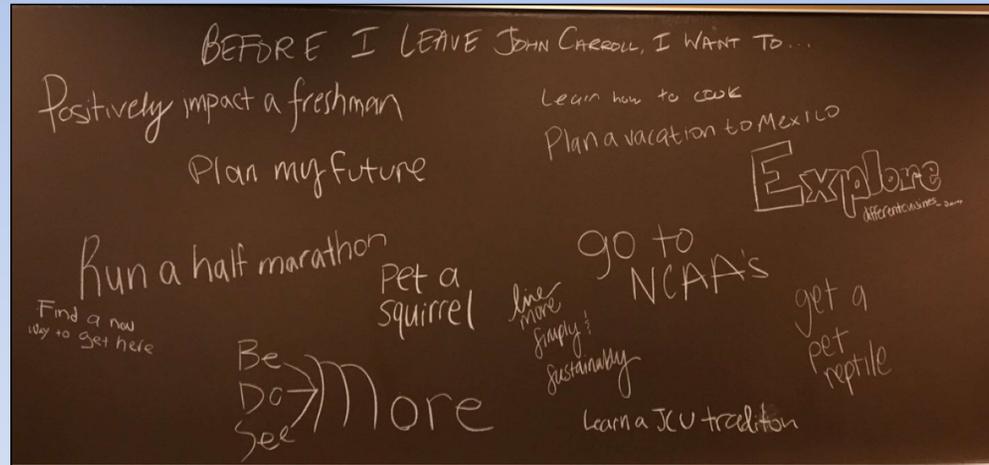
Program components: Expanded cohort advising

Example : Planning & hosting alumni panel



Program components: Expanded cohort advising

Example: Building a JCU Bucket list



Based on Candy Chang's Before I Die Project & TED Talk

Program components: Entering Research

Students want to do research—but need help understanding:

1. What it is
2. How it fits into their plan
3. That talking to faculty isn't so scary
4. *That they are prepared to do it*



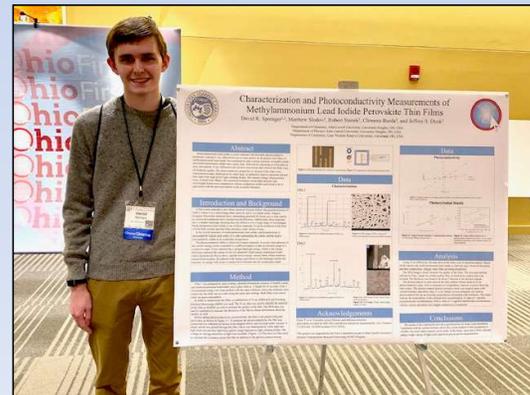
Program components: Summer research fellowships

Student-faculty research partnerships

Six of 22 students participated after their first year

Additional students in academic year, after sophomore year

Also, professional development series



Program components: Field trips & social events



Community & network building

Through this program, we want them to:

Learn more about themselves

Understand they have a team to support them—including their peers

Develop their identities as STEMM professionals—whatever form that takes



Student outcomes

Starting our third year...

30 of **32** scholars retained; **all** maintain eligibility

Avg. cumulative overall, STEMM GPAs: 3.827, 3.755

22 lived in our STEM LLC

12 completed a paid or unpaid internship

7 completed a research project



Key success takeaways

1. **Early interventions** are important for developing cohort identity
2. **Regular meetings** focused on themes that resonate with scholars support their success
3. **Community-building** is a key program element
4. **Reflective activities** help students process their college experience
5. **Fun activities** are important for the students
6. **Peer mentors** also grow through program participation

Questions?



Student testimonials

*From the very beginning, I knew there were people who **shared similar values** together, we've finished our first year of college **successfully** due to our **reliance** on each other for **support**, both, academically and personally. **It's almost like I gained another family.***

*Being a part of this program has **opened up so many new doors to me in science.** It has shown me all the **opportunities** out there and has given me the **confidence** to know that I can **achieve anything** that I get my mind and heart to.*

*From this experience, not only did I gain knowledge to help me **reach my future goals**, but I also gained a strong group of **friends** that are experiencing the same things as me, have very similar goals as me, and who always **push me to do my best.***

Scholar success

2017-2018 Cohort	Starting Cohorts	Fall 2017 EOT GPA	Spring 2018 EOT GPA	2017-18 Cumulative GPA	Fall 2018 EOT GPA	Spring 2019 EOT GPA	Cumulative GPA
COF	15	3.698	3.824	3.740	3.793	3.764	3.789
STEMM	214	3.122	3.161	3.164	3.197	3.188	3.281
Non-STEMM/ Non-COF	524	3.038	2.955	3.009	3.054	3.020	3.114
Overall	753	3.075	3.029	3.068	3.111	3.085	3.177

2018-2019 Cohort	Starting Cohorts	Fall 2018 EOT GPA	Spring 2019 EOT GPA	2018-19 Cumulative GPA
COF	8	3.761	3.861	3.816
STEMM	229	3.180	3.189	3.178
Non-STEMM/ Non-COF	607	3.022	2.943	2.995
Overall	844	3.072	3.020	3.053

NEOhio COF Student Research Conference

CCC, CSU, CWRU, KSU, YSU

NEOhio COF Consortium

- Led by CSU (Barb Margolius): 2007–08 proposal, 2008–12 grant implementation
- UA, CCC, CSU, CWRU, KSU, YSU
- “Success in Mathematics”—maths preparation for STEM
- Original student research projects linked undergraduate maths to students’ STEM major
- Role of student research projects to COF program at each partner campus

Conference History to Present

- Original purpose: network COF supported students across NE Ohio consortium
- Spring 2009 conference online; subsequent conferences face-to-face, juried in recent years
- Typically 300–400 students, 120 posters divided into several categories
- Judge pair and rubric/scorecard for each poster: originality, presentation, poster, teamwork
- Each judge pair names outstanding project; typically 17–20 recognized projects

Current Conference Practices: 1

- Held each April; host site currently rotates among CCC, CSU, CWRU, KSU, YSU
- Online registration of projects, students, judges at website set up by host
- Conference day, with travel, up to 8 hours
- Students arrive, sign-in, find location, put poster up
- Students, judges, staff eat lunch

Current Conference Practices: 2

- Students judged typically in two shifts: students of shift not being judged meet other students, see other projects
- Judging done on paper, turned in for processing; also, judges' nominated outstanding projects
- During processing, students (judges & some staff) attend plenary presentation by academic/ industrial/healthcare professional
- Awards ceremony: recognition of outstanding projects. Breaking down posters

Related Conference Matters

- Conference costs: CWRU, April 2019
- Photos of recent Conferences
- Poster preparation support at CSU
- Project/conference integration at YSU

Conference Costs: 1

- Conference costs to the host institution are divided among participating schools and billed after the conference is held.
- Additional costs might include poster printing and the rental of a bus or van for travel. These are paid directly by each school.

Conference Costs: 2

Host costs are divided among institutions based on

- the number of student participants ...

Student lunches

Student parking

Programs (printed by YSU)

- or the number of posters from each school.

Poster stand rentals

Judge/Staff lunches

Facility fees

Gifts/Prizes (sponsors solicited)

Judge/Staff parking

Supplies (nametags, certificates, ...)

April 2019		CWRU	CSU	CCC	KSU	NDC	UA	YSU
By Student	310	70	90	1	58	3	4	84
Programs - by YSU	273.52	61.76	79.41	0.88	51.17	2.65	3.53	74.12
Lunch-Students	2970.00	670.65	862.26	9.58	555.68	28.74	38.32	804.77
Parking- Students	154.00	0	11	11	77	22	11	22
subtotal	3397.52	732.41	952.67	21.46	683.85	53.39	52.85	900.89
By Poster	125	29	31	1	26	1	3	34
Poster Stands	850.00	197.20	210.80	6.80	176.80	6.80	20.40	231.20
Facility Rental								
-TVUC	1225.00	284.20	303.80	9.80	254.80	9.80	29.40	333.20
-Thwing Center	175.00	40.60	43.40	1.40	36.40	1.40	4.20	47.60
-Catering fees	179.00	41.53	44.39	1.43	37.23	1.43	4.30	48.69
Parking- Judges/Staff	55.00	12.76	13.64	0.44	11.44	0.44	1.32	14.96
Supplies	317.46	73.65	78.73	2.54	66.03	2.54	7.62	86.35
Lunch-Judges/Staff	774.50	179.68	192.08	6.20	161.10	6.20	18.59	210.66
Gifts (less \$600 Lubrizol)	169.19	39.25	41.96	1.35	35.19	1.35	4.06	46.02
Movers	200.00	46.40	49.60	1.60	41.60	1.60	4.80	54.40
subtotal	3945.15	915.27	978.40	31.56	820.59	31.56	94.68	1073.08
Total cost	7342.67	1647.68	1931.06	53.02	1504.44	84.95	147.54	1973.97

Conference Snapshots

- CWRU welcome April 2019—note 7 institutions
- Group shot of participating students April 2019
- CWRU team awaiting judging
- YSU team being judged
- Plenary lecture/presentation
- CSU team recognition in April 2018







Poster Preparation Support at CSU

- Poster project overview presentation at the start of the academic year.
 - Differences between expository and original research discussed
- Topic brainstorming session
- Support in forming groups (2-4 students)
- CSU faculty members present on their current research
 - Various times throughout the year
 - Various disciplines
 - All are willing to serve as poster mentors
- How to craft a scientific abstract session
- Mandatory practice session 2 weeks before
 - Groups present to a CSU faculty member
 - Constructive criticism on layout and delivery provided

Project/Conference Integration at YSU

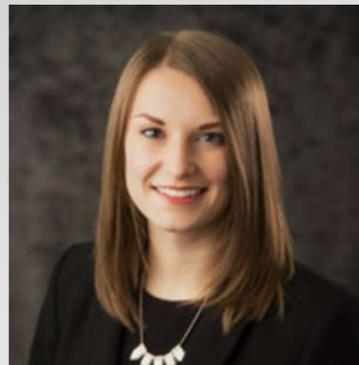
- COF scholarship student contract mandates research team projects, and their presentation at 3 venues, including the Conference
- Faculty + industrial/health-care professionals as team mentors; COF management team helps with logistics
- October cohort meeting sets up project teams; each Spring cohort meeting dedicated to projects, including full “dress rehearsal”
- Nominal \$300 project budget; more available if needed
- Branding with YSU-COFSP polo shirts
- Students evaluated by mentors and fellow team members
- Projects can set up co-ops/internships & career placements



Governor's Office of Workforce Transformation

Mike DeWine, Governor

Jon Husted, Lt. Governor and Director



Emily Fabiano
Director of Strategy and Operations



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