



The Mathematics, Engineering, Science, Achievement (MESA) program focuses on initiatives to improve diversity and retention of historically underrepresented students in the STEM fields, including African American, Latinx/Hispanic, American Indian/Alaska Native, Native Hawaiian/Pacific Islander, and women students.

EQUITY

We believe that race and gender should not be predictors of STEM educational outcomes.

ACCESS

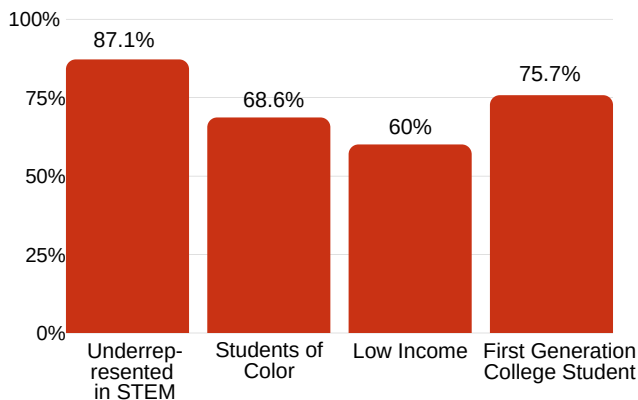
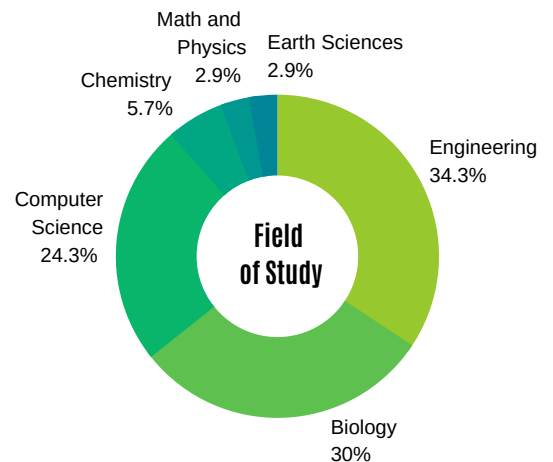
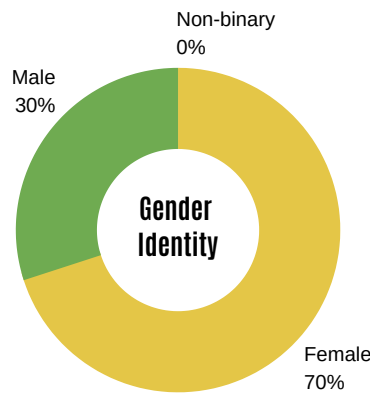
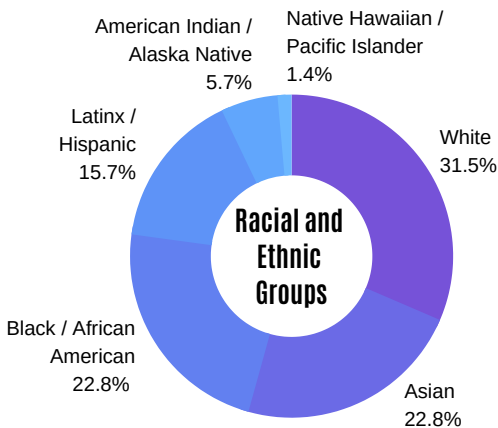
MESA students will have access to opportunities that will academically and professionally develop them into competitive STEM transfer students.

COMMUNITY

Together, we will build and be part of a community that empowers each other.

WHO WE SERVE: MESA STUDENTS

Last year, MESA served 70 students. Below are MESA Student demographics.



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WELCOME

Thank you for your commitment to dismantle institutionalized racism, sexism, and other systems of oppression that our students face every day. Together faculty, staff, partners, and community have been working to remove barriers historically underrepresented students face in their academic and career development. This review highlights a few MESA events, MESA resources, and most importantly, the students we serve. MESA students are leaders on and off campus, with powerful dreams to solve some of the world's most pressing problems. We are honored to have the opportunity to empower students, close equity gaps, and increase access. We thank you for your continued support and we look forward to the progress that will be made in 2019-2020, the community that will continue to grow, and all that MESA students will continue to accomplish.

MESA EVENT HIGHLIGHTS

STEM and Nursing Building Ground Breaking: Fall 2018

On September 12th 2018, Edmonds Community College broke ground on the new STEM and Nursing Building. This 70,000 square foot building will house STEM classrooms, labs, and support services while centralizing STEM resources. MESA Alumni Tina, spoke at the groundbreaking about how Edmonds CC and programs like MESA set her up for success when transferring to the UW Seattle Mathematics Department.



MESA Alumni Tina, speaking at the ground breaking.

Since the groundbreaking, construction on the STEM and Nursing Building has progressed quickly. The construction phase is expected to finish in early May and move in will begin during Summer Quarter 2020. MESA is excited to move into the new MESA Student Center on the second floor!

MESA Personal Statement Workshops: Winter 2019

As MESA students were gearing up for application season, MESA staff hosted several Personal Statement Workshops to help students share their impactful stories. Many MESA Alumni said that Personal Statement Workshops were one of the most useful MESA resources.

UW Seattle Women in Science and Engineering (WiSE) Conference: Winter 2019



Edmonds CC MESA group at the WiSE conference.

2018-2019 School Year

MESA PROGRAM RESOURCES

Holistic Academic Advising

MESA helps students create tailored academic plans for their needs and goals, while also providing resources that address barriers students may face in their academic and career development, such as financial planning, food insecurity, discrimination, and impostor syndrome.

Scholarships

MESA Scholarships were created to remove the financial burden of obtaining an education. There are four types of MESA Scholarships: Tuition & Fees, University Application Fees, Conference Fees, and Books & Supplies

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With the financial problems I have, the MESA scholarship has made my life easier and helped me focus more on my education. This scholarship has supported me in taking one step forward in achieving my goals.

- Bethlehem, MESA Alumni, Bio-engineering at OSU

MESA Student Center

Located in MUK 205, the MESA Student Center is a hub for the MESA community. Students can receive tutoring, grab a snack, work on projects, and connect with other MESA students.

“

The MESA Student Center has been a gift in my times of need. There are always snacks available to MESA students, either for a treat between classes or just some good mood food to kick the stress away. I know I've gone there for when I didn't have much food at home and couldn't pack lunch. It's a great space to meet with friends and have a community.

- Liz, MESA Student, Engineering



DR. SINGH VISITS MESA

In January 2019, Edmonds CC President, Dr. Amit Singh visited the MESA Student Center. More than 25 MESA students packed the small MESA Student Center in Mukilteo Hall to meet Dr. Singh and discuss the value of the MESA Student Center and the MESA Program.

“

As a woman and as an indigenous student in STEM, I have always found it difficult to establish bonds with students of similar backgrounds given the narrow representation of my demographic in higher education. A room for MESA in the new STEM Building that students like myself have actively advocated for at all stages of its funding and construction is not only meaningful, but natural. STEM students could easily transition from class to study and touch base with their tutors, study groups, snacks, and all the resources that students like myself will naturally seek out in this setting. I represent myself and many others when I testify to the impact having an integrated MESA room would have!

- Lia, MESA Alumni, Environmental Science

As a result of this student advocacy, Dr. Singh announced that the MESA Student Center will move into a larger space in the new STEM and Nursing Building. The new room has approximately triple the capacity; with more space for MESA students to work on projects, access MESA services, and most importantly, build community with other students, staff, and faculty. *Thank you, Dr. Singh!*

NEW INITIATIVES

VISTA and ACE Program

In early 2019, Edmonds CC MESA was awarded a grant through Washington Campus Compact for an AmeriCorps VISTA member. VISTA is a federal program focused on anti-poverty initiatives that places volunteers in communities around the United States. VISTA members help local organizations build structure and capacity. The MESA VISTA member will coordinate the Access, Community, Equity (ACE) Program, which focuses on building connections with partners and increasing student access to competitive component activities, such as internships, workshops, and conferences.

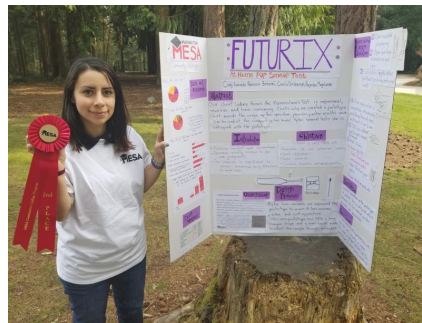
Green Initiative

During the 2018-2019 academic year, MESA used over 2,100 cups and lids. In an effort to reduce waste, MESA is implementing new student led sustainability focused initiatives; including adding a compost bin to the MESA room and providing more reusable cups and utensils.

More updates to come!

MESA EVENTS - CONTINUED

MESA Student Leadership Retreat: Spring 2019



MESA Alumni Cindy, with her project and second place ribbon.

During the MESA Student Leadership Retreat, students worked with a client to create a human centered engineering design solution. Students created a research poster and pitched their solution to judges. Cindy's, a MESA Alumni, team was awarded second place for a home cervical health screening kit to increase access to reproductive healthcare.

“

I learned a lot from the trip such as solving a problem for clients, building teamwork through the games around the forest, enhancing the discipline to live with the community, and being more confident to get acquainted with new people. - Lien, MESA Alumni, Industrial Engineering at UW

Laser Tag with Everett CC MESA: Spring 2019

Edmonds CC and Everett CC MESA went head to head in a laser tag battle. Students ran through a barn, jumped over stinging nettles, and hid in unexpected places to be the final champion. This community event fostered teamwork, communication, and gave students the opportunity to create a larger MESA network with other community college students. In the end, the last student standing was from Edmonds CC. *Go Tritons!*



Edmonds CC MESA students getting hyped for the laser tag showdown.

MESA EVENTS - CONTINUED

iFly-Indoor Skydiving: Spring 2019

MESA visited the iFLY Indoor Skydiving facility to explore their wind tunnel and learn about terminal velocity. Students designed their own wind tunnel, built models, tested different objects that had varying terminal velocities based on mass and surface area, and flew in the wind tunnel themselves.

“

The STEM demonstration of the wind tunnel was engaging and watching the instructors do tricks was jaw-dropping. Nothing beat the literal flying though; that was crazy!

- Beatrix, MESA Student, Computer Science



MESA Student flying at terminal velocity in the iFLY wind tunnel.

STEM & MESA Awards: Spring 2019



Liz and Dagwami received the Outstanding MESA Student Award.

STEM and MESA students, staff, and faculty were honored at this "You're out of this world!" themed event. Students nominated by staff and faculty in all STEM disciplines received awards honoring their unique success in the STEM fields. Several MESA students received awards.

UW Bothell STEM Capstone Colloquium: Spring 2019

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Going to the UW Bothell STEM Capstone Colloquium was a great experience. I got to see so many different inspiring projects. From Applied Computing to Mechanical Engineering, there were at least one project per each degree and career path. It was a great opportunity to learn ideas about what I could do once I start my journey at UWB. I really hope more people take advantage of this opportunity.

- Angela, MESA Alumni, Computer Science at UW Bothell



MESA Alumni Lien (right) viewing a capstone project on the implementation of robotic mining on other planets.

Seniors in the STEM fields at UW Bothell presented their capstone projects to peers, faculty, and community members. At this event, MESA students were inspired to develop innovative solutions for projects they are interested in and discovered that the possible projects they could work on are endless.

MESA STUDENTS CREATE CHANGE

On Campus

- MESA student Brenda is the Center of Student Engagement and Leadership Administrative Liaison for the 2019-2020 school year.
- MESA Alumni Hermione, organized the first Women Empowerment Luncheon at Edmonds CC. Six MESA Members received the Women Empowerment Award, which recognizes women students on campus for overcoming barriers, academic achievement, providing a helping hand, and leadership.



MESA Alumni Hermione hosting the Women Empowerment Luncheon. Photo: Mary Ross



MESA Alumni Bethlehem (left) with her award. Photo: Mary Ross

In the Community

- A MESA student started their own business.
- A MESA student participated in the Summer Health Professions Education Program (SHPEP).
- A MESA student was a beach naturalist volunteer.
- A MESA student participated in the UW Coding Bootcamp.

MESA STUDENT SPOTLIGHT

Giovanni

Major:

Mechanical Engineering

What inspires you?

In my GED class, one of my classmates was a 60 year old woman that inspired me to go back to school, regardless of your age.

College goal?

Be the first in my family to earn a degree, specifically a Mechanical Engineering degree.

Career goal?

Improve the structural conditions of low-income neighborhoods and create new sustainable waste management practices.

How has MESA impacted you?

MESA has opened my eyes to valuable opportunities and has made earning an engineering degree possible for me.

Giovanni is an active leader on campus and the Cultural Kitchen Coordinator. The Cultural Kitchen is part of the Campus Community Farm, designed to foster the connection between people and food.



Giovanni (left) and Lien (right) identifying eagles during the MESA Student Leadership Retreat.

MESA EVENTS - CONTINUED

Gov. Inslee Tours Engineering Labs: Spring 2019



MESA students show Gov. Inslee (right) how the wind tunnel works.

Photo: Office of the Governor

Governor Jay Inslee toured the engineering labs to meet with students, alumni, and faculty. During the tour, Gov. Inslee met with multiple MESA students, including MESA students in the Rocketry Society and MESA alumni.

SoundBio Community Lab Tour: Spring 2019

MESA toured the SoundBio Community Lab. The lab provides work space for the community to work on independent research projects with equipment to do DNA analysis, chemistry experiments, and other biological science exploration. MESA students practiced their pipetting skills and made edible water bottles with sodium alginate and calcium lactate.



MESA Student Liz, pouring a sodium alginate solution.

MESA IMPACT: TRANSFERRING STUDENTS

MESA Students Transferring to 4- year Universities

MESA Director

Hello MESA students! Congratulations on transferring! How did MESA impact you?

Justin, Biochemistry @ UW Seattle

It helped me to have a place to go to relax and get to know a small group of people.

Lien, Industrial Engineering @ UW Seattle

It helped me to know about the transfer application and my future careers. Through the outside events with MESA, I learned the real life experience that is really necessary for me in the future.

Bethlehem, Bioengineering @ OSU

If it wasn't from the financial support (MESA Scholarship) and the advising, I wouldn't have transferred to OSU by fall. The weekly updates, with scholarship, internships and events have helped me discover many useful resources.

MESA Director

Thank you for sharing and I can't wait to hear about all the amazing things you are going to continue to accomplish!

MESA SCHOLARSHIPS: 2018-2019 ACADEMIC YEAR DATA

Starting in Summer 2018, MESA began awarding scholarships to increase access to education and close equity gaps. You can make an impact by donating to MESA Scholarships through the Edmonds CC Foundation. Even \$5 a month makes a difference!

\$314+

Awarded for Books and Supplies

\$21,829+

Awarded for Tuition and Fees.

\$838+

Awarded for University Application Fees.

“

The MESA Scholarship has helped me with getting my Associate of Science degree and transferring to the University of Washington-Seattle. As a low income student, I would not be able to pay for the tuition and the books I needed to complete my education at Edmonds CC. The help that MESA scholarship provided made me feel supported and welcome as a first generation woman of color in the STEM education.

- Tina, MESA Alumni, Pure Mathematics at UW Seattle

MESA STUDENT SPOTLIGHT

Brooke

Major:
Math or Physics

What project did you work on during the NASA Community College Aerospace Scholars (NCAS) Program?

My team of 10 participants from around the U.S. built a Mars rover over the 3 day competition to collect and analyze mineral samples.

I was the financial manager and kept track of the project budget, while other team members built and programmed the rover. It was so cool to see how my diverse team could work together to problem solve and reach our goal, and we ended up winning the competition!

What did you get out of the NCAS Program?

The program was so rewarding and helped me find a direction, visualize how I can contribute to NASA's goals, and figure out why I'm going to school. I also made so many connections with other driven STEM students and industry professionals. Additionally, I learned how to manage a team and I'll apply that knowledge with the robotics club here at EdCC. In the future I hope to work in artificial intelligence and NCAS helped me understand how many different majors can support NASA missions.



MESA Student Brooke (right) with other NCAS students from Washington state.

MAKE AN IMPACT

Staff and Faculty

- Include MESA in your syllabus and Canvas pages.
- Request for a MESA staff member to come to your class to talk about MESA.
- Send MESA opportunities students might benefit from.
- Attend MESA events and connect with students.
- Donate to MESA Scholarships through the Edmonds CC Foundation. Employees can set up automatic donations and even \$5 a month makes a difference!

Industry and Community Partners

- Monetary Donations: Donate to MESA Scholarships through the Edmonds CC Foundation.
- Internships: Provide the opportunity for MESA students to gain hands on experience.
- In-kind Donations: Provide resources for students in need. Donate non-perishable foods, school supplies, calculators, laptops, or other equipment.
- Site Visits: Inspire students by sharing the impactful work you are doing.
- Mentorship: Empower MESA students by sharing your story.

Have other ideas? Contact us at mesa@edcc.edu.

JOIN THE #MESAFAMILY



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THANK YOU FOR READING

Stay Tuned for Exciting Events Happening During the 2019-2020 School Year

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