Early College Information Session

Associate of Science, General Engineering
Associate of Arts in Teaching, Elementary Education/Elementary Special Education

Globe Hall - High Technology and Science Center
Germantown Campus
November 13, 2019
Additional Information

Program information, including a copy of presentation, can be found at:

www.montgomerycollege.edu/early-college

https://montgomeryschoolsmd.org/curriculum/partnerships/dual-enrollment.aspx

From the MCPS Home Page, search “Dual Enrollment” and click on the first result. The Early College information is in the middle of the page.
Early College (EC) at Montgomery College

- MCPS and Montgomery College (MC) collaboration which provides the opportunity for students from multiple high schools to complete their high school graduation requirements on an MC campus and begin their college career.

- MCPS students will complete their Maryland State high school diploma requirements while simultaneously earning an Associate of Science or an Associate of Applied Science degree from Montgomery College.

- Early College students will take their first year of college classes together as a cohort. In the second year in the program, students will continue to take most of their classes with the Early College cohort, however, may also take elective courses with other MC students.

- The students will not take any classes at the high school. They will be fulltime college students taking all of the coursework for the 11th and 12 grade years on the MC campus.

- The MC A.A., A.S., A.A.S and A.A.T. degrees earned will transfer to a four-year institution within the state of Maryland and provide an opportunity for Montgomery County to support current students while building a future workforce. By creating a pathway from MCPS, to MC, to a bachelor’s degree, and then back to the Montgomery County workforce.
Assumptions & Admission Requirements

Assumptions

✓ Students have met or are near completion of fulfilling their SSL hours.

✓ Students have successfully completed all 9th and 10th grade classes as outlined on the degree pathways including P.E.

✓ Students must earn grades of “C” or higher in their college classes in order to maintain eligibility to remain in the program. Grades of “C” or better are crucial as this may affect transferability of credits, students ability to receive future federal financial aid and satisfying prerequisites for future college classes.

✓ With the help of their Early College Coordinator, students will research transfer opportunities to determine appropriate admission application process and transferability of their credits.

Admission Requirements

✓ Students have taken their mathematics and English state assessments.

✓ Have an unweighted MCPS cumulative G.P.A. of 2.75 or higher at the end of 10th grade.

✓ Complete the MCPS Application, the MCPS Early College Application and the Montgomery College Admissions Application.

✓ Participate in the Summer Transition program: Monday-Friday, 9 a.m.-noon, July 6 - July 31 on the Rockville Campus (General Engineering) or Germantown Campus (Elementary Educ/Elementary Special Educ).

✓ Meet assessments into individual Early College programs.
A.S. in General Engineering
Early College Degree Program
Engineering Program @ Montgomery College

- Largest Engineering Transfer Program in the Country
- Encompasses Nine Tracks: Aerospace, Bioengineering, Chemical, Civil, Computer, Electrical, Fire Protection, Mechanical, and General
- Over 1000 students in the program
- All our courses transfer to four-year institutions
Examples of A.S. in General Engineering Transfer Opportunities

MC Students Transfer to Top Undergraduate Engineering Programs

1. Massachusetts Inst of Technology
2. Bill Bowen
3. California Institute of Technology
4. Georgia Tech
5. University of Texas at Austin
6. Purdue University
7. Virginia Tech
8. University of Maryland
9. Rensselaer Polytechnic Institute
10. University of Washington
11. University of California, Berkeley
12. University of California, Los Angeles
13. University of California, Santa Barbara
14. Stanford University
15. University of Illinois
16. University of Michigan
17. University of Wisconsin
18. University of Minnesota
19. University of Oregon
20. University of Colorado
21. University of Washington
22. Oregon State University
23. University of California, Davis
24. University of California, Santa Cruz
25. University of California, Irvine
26. University of California, Riverside
27. University of California, San Diego
28. University of California, Santa Barbara
29. University of Southern California
30. University of Southern California
Engineering Transfers to Four Year Schools 2013-2017

- UNIVERSITY OF MARYLAND, COLLEGE PARK: 812
- UNIVERSITY OF MARYLAND, BALTIMORE: 175
- PENNSYLVANIA STATE UNIVERSITY: 62
- CATHOLIC UNIVERSITY OF AMERICA: 51
- VIRGINIA POLYTECHNICAL INSTITUTE AND STATE UNIVERSITY: 27
- WEST VIRGINIA UNIVERSITY: 26
- UNIVERSITY OF THE DISTRICT OF COLUMBIA: 26
- FROSTBURG STATE UNIVERSITY: 23
- MORGAN STATE UNIVERSITY: 22
- UNIVERSITY OF MARYLAND, EASTERN SHORE: 19
- GEORGE MASON UNIVERSITY: 18
- GEORGE WASHINGTON UNIVERSITY: 18
- HOWARD UNIVERSITY: 15
- DREXEL UNIVERSITY: 15
- ROCHESTER INSTITUTE OF TECHNOLOGY: 13
- OTHER 4 YEAR: 11
- OTHER: 10
Career Opportunities

- Aerospace Engineer
- Agricultural Engineer
- Automotive Engineer
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- Computer Engineer
- Drafting and Design Engineer
- Electrical Engineer
- Environmental Engineer
- Geological Engineer
- Marine Engineer
- Mechanical Engineer
- Petroleum Engineer
MC Engineering Alumni Workplaces in Montgomery County

Bethesda
- leidos
- NIH Clinical Center

Gaithersburg
- NIST
- Northrop Grumman

Montgomery Village
- csaac
- Hughes Network Systems

Silver Spring
- INDUSTRIAL INDICATORS
- SMARTSENSECOM

Rockville
- Forrester Construction
- FINRA

General Dynamics Mission Systems
- Pepco Holdings
- NAVYAIR
- Exelon
- FDA
Montgomery College Student Team Wins National Competition at NASA Kennedy Space Center in 2017!
MC Students Win Science Observation Award @ National Student Solar Spectrograph Competition

MC Students Take Second Place @ Robotics Competition in Philadelphia
A.A.T. in Elementary Education/Elementary Special Education
Early College Degree Program
What is the Associate of Arts in Teaching (AAT)?

- An associate’s degree which meets the first two years of a four year bachelor’s degree in teacher education
- The degree can transfer to any Maryland four year state college or university
- This program places you in the classroom early in your coursework (field experience) in Montgomery County Public School
- This program provides additional supports as part of the CREATE (Culturally Responsive Educators Aspiring for Teaching Excellence) Teacher Cohort Program
Culturally Responsive Educators Aspiring for Teaching Excellence (CREATE Cohort)

- Provide flexible, culturally-appropriate education
- Meet with a mentor for academic and Social Support
- Attend skill building sessions for testing requirements
- Embedded support and access to all Montgomery College services
- Collaborate with external partners and transfer institutions
Transfer Opportunities for A.A.T in Elementary Education/Elementary Special Education
Career Opportunities in Teaching Elementary Education/Elementary Special Education

- Substitute Teacher
- ParaEducator
- Lead Teacher in Child Development Centers
Mr. Safiullah Rifai

Year Two Early College
A.S. Mathematics Student
EC² Program Cost to Student

<table>
<thead>
<tr>
<th>Cost of degree program including tuition, fees and instructional materials to a non-Early College program student</th>
<th>$12,700</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximate cost of program paid by MC &amp; MCPS</td>
<td>$9,920</td>
</tr>
<tr>
<td>Approximate cost of program to student (MC fees)</td>
<td>$2,724 (average of $681 per semester)</td>
</tr>
<tr>
<td>Approximate cost of program to student who is FARMS eligible</td>
<td>$0</td>
</tr>
</tbody>
</table>

- Early College students are not eligible for federal financial aid. However, students may apply for Montgomery College High School Grant funds to cover portions of their fees as these funds are available. For more information on the MC High School Grant, go to the Dual Enrollment Tuition, Fees and Financial Assistance page at: http://cms.montgomerycollege.edu/EHDU/Department2.aspx?id=50732

- **Transportation**: MC students can use Montgomery County Ride On bus service with their student photo ID and current term registration sticker as well as having access to the MC inter-campus shuttle system. MCPS does not provide bus service.
### A.S. or A.A.T. Degree Approximate Tuition: Early College versus Traditional Tuition

<table>
<thead>
<tr>
<th>Program</th>
<th>Required Years After High School</th>
<th>Total Tuition, Fees &amp; Books for Degree</th>
</tr>
</thead>
</table>
| UMD College Park  
*Bachelor of Science degree*                | 4                                | $47,116  
($43,116 tuition & fees + $4,000 instructional materials)                 |
| Montgomery College  
*A.S. or A.A.T. degree plus*  
UMD College Park  
*Bachelor of Science degree*               | 4                                | $36,148  
(MC: $12,700 + UMD: $23,558)                                              |
| Early College at Montgomery College  
*A.S., or A.A.T. degree and*  
UMD College Park  
*Bachelor of Science degree*               | 2                                | $26,282  
or a savings of $20,834  
(EC at MC: $2724 + UMD 2yrs. at $22,558)                                    |
## Engineering and Teaching - Time to Completion

<table>
<thead>
<tr>
<th>Year</th>
<th>Traditional Path</th>
<th>Early College Path</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 years to high school diploma</td>
<td>2 years of high school</td>
</tr>
<tr>
<td></td>
<td>4 years to baccalaureate (bachelor) degree</td>
<td>2 years to high school and 2 year degree</td>
</tr>
<tr>
<td>Year 5</td>
<td></td>
<td>2 years to baccalaureate (bachelors) degree</td>
</tr>
<tr>
<td>Year 6</td>
<td></td>
<td>2 years to post-baccalaureate (Masters) degree</td>
</tr>
<tr>
<td>Year 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 8</td>
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</table>
General Education Requirements

- Almost all colleges and universities require a set of general education or core courses. General Education courses are part of all Montgomery College associate degree programs.

- In these courses, students develop a foundation of skills, knowledge, and values, across a spectrum of topics, that prepare students for success in their future educational pursuits as well as in their personal and professional lives. These are courses that are taken in addition to those courses that are required for the major or degree program.

- Students will take classes in writing, humanities, science, and behavioral and social science as part of their general education requirements.

- The General Education coursework will transfer to University System of Maryland (USM) 4-year institutions as well as to most colleges and universities.
Early College Program Academic Support

Mandatory Summer Transition Program

All Early College programs with the exception of Health Science students:

July 6-July 31, 2020

Monday-Friday, 9 a.m.-noon

On the campus where the Early College degree program will be offered

Health Science students take BIOL 150 course: July 6-August 11, 2020

Monday-Thursday 9 a.m.-1:00 p.m.

On the Takoma Park/Silver Spring Campus
Purpose of the Mandatory Summer Transition Program

EC students will be prepared to meet the demands of college by bridging the gap between high school and college and facilitate student readiness for college. In addition to improving their math readiness, students will also:

- Prepare for specific degree college mathematics curriculum
- Health Science students will take their first required MC class; BIOL 150
- Learn how to access campus resources and services
- Discover new study and time management skills and improve team-building and problem-solving skills
- Become familiar with the campus and student organizations and clubs
- Understand graduation requirements
- Increase knowledge of MC policies/procedures
Additional Academic Support

Ongoing Services & Support:

• Students are highly encouraged to begin preparing for the college assessment testing right now by using the Khan Academy to increase English and Mathematics skills.

• Embedded coaches working with specific Early College courses.

• Early College Academic Coordinator located on each campus will be available to assist students with advising, course registration, connect students to services, transfer questions, etc.
Germantown and Rockville Campus
Academic Support

- Rockville Campus Ackerman Learning Center: Math & Science support center with services including tutoring, current textbooks, calculators, review sessions, and a computer lab.

- The Math, Accounting, Physics, and Engineering Learning Center (MAPEL) at the Germantown Campus is a friendly learning environment. Services provided include tutoring, calculator rentals, a computer lab, text books/solution manuals, and other study materials.

- Embedded coaches work to support specific English, mathematics and science Early College courses.

- Early College Academic Coordinator is available on each campus to assist students with advising, course registration, connect students to services, transfer questions, etc.

- Campus Writing Center: Services include in-person and online one-to-one tutoring, specialized workshops, PC and MAC computers, Microsoft Office suite and various resources assigned by faculty.
Disability Support Services

- DSS provides accommodations and supports for qualified students with documented disabilities college-wide.
- Services that students received through an IEP or 504 plan at MCPS do not convey to college.
- Students should apply for college services at least one month prior to the start of their classes.

✓ Contact the Rockville Campus DSS office on 240-567-5058 or the Germantown Campus DSS office on 240-567-7770.
Next Steps

• A link was sent via Connect Ed to all initially qualified Grade 10 students who must complete the MCPS Interest Application (google doc) by December 2, 2019 deadline. The Interest Application link is also on the Dual Enrollment/Early College webpage.

• Eligible and Non-Eligible students will be informed of status by MCPS by mid-December, 2019.
  ▪ Eligible students will receive an email with further instructions.
  ▪ They will be asked to complete the MCPS Early College Application Form and Montgomery College Admissions Application.
  ▪ Both of these applications must be submitted by Friday, January 3, 2020.

• Eligible students will be contacted by their high school and scheduled to take the College Board ACCUPLACER assessment by February.

• All Eligible students who meet the program requirements will be provisionally accepted to the summer transition program pending final grades and MCAP and state assessment scores and will be notified by mid-April.
  • NOTE: If there are more eligible students than seats, a lottery will be held and students will be informed of their status.

• Attend and satisfy requirements of the Early College Summer Transition program, July 6-July 31, and assess into appropriate math course for degree option.

• Mandatory new student meeting will be held the week of August 24th with the fall 2020 semester courses beginning on Monday, August 31, 2020.
Contact Information

**General questions** about the Early College experience, contact Amy Crowley at: amy.crowley@montgomerycollege.edu

Questions on the **application process**, contact Mike Sullivan at: Michael_P_Sullivan@mcpsmd.org

For questions on the A.S. degree in General Engineering, please contact Nawal Benmouna at: nawaal.benmouna@montgomerycollege.edu

If you have questions on the A.A.T. in Elementary Education/Elementary Special Education degree program, please contact Zeporia Smith at: zeporia.smith@montgomerycollege.edu

Questions about **Disability Support Services**, contact Sue Haddad at: sue.haddad@montgomerycollege.edu