

2017 M-Engin Academy Fact Sheet

Q. What is the M-Engin Academy?

A. M-Engin is one component of the University of Michigan M-STEM (Michigan Science, Technology, Engineering and Mathematics) Academies. It is designed to maximize the academic, personal, and professional success of students, with the goal of preparing them for the global STEM workforce. M-Engin spans the first two years and includes a pre-freshman 6-week summer transition program, customized advising, career guidance, learning enrichment activities, and assistance in obtaining a paid professional summer internship or research opportunity.

Q. How would participation in the M-Engin benefit me?

A. Our experience, supported by national data, indicates that participation in a summer transition program, followed by comprehensive robust support throughout the academic year, increases academic success. M-Engin is designed to simultaneously build upon students' strengths while customizing services so that all M-Engin students will be able to fully experience and benefit from the scope, scholarship, and scale of the University. In addition to the services provided by the program, participants in good standing will receive a stipend of \$3000; half paid at the end of the Summer Transition Program, and half paid during the first academic year.

Q. How are students selected to apply to M-Engin?

A. Students who are admitted to the University of Michigan College of Engineering are among the very best students in the country, and there is an expectation of high academic achievement for all. Invitations to prospective participants of M-Engin are based upon a holistic approach that considers students from all backgrounds with diverse experiences, including leadership and community service activities, and with a broad range of academic profiles.

Q. How long is the commitment to the M-Engin and when would my commitment begin?

A. M-Engin is a two-year program, running from Summer 2017 through the end of the second year (April 2019). M-Engin begins during the summer with a six-week academic program. Through this experience, students will broaden their academic skills, enhance their personal and professional development, create support networks, and familiarize themselves with the campus and its resources. Specifically, M-Engin participants will be required to attend the M-Engin Orientation **June 24**, UM Freshman Student Orientation from **June 25 – 27**, and participate in the Summer Transition Program from **June 27 – August 5**. ***Participants must commit to the entire duration of the Summer Program with the exception of the optional weekend home (Friday, July 21, 5:00 p.m. – Sunday, July 23, 6:00 p.m.)***

Q. How are the two years of the M-Engin structured?

A. **Summer 2017:**

During the Summer Transition Program, M-Engin allows you to preview the expectations for first-year engineering students while further broadening your academic skills and your knowledge of the University environment and available resources. You will reside on North Campus and participate in classes in mathematics, computer programming, communication skills, and a hands-on engineering concepts course. There will be seminars, workshops, and academic skills development activities to further enhance your personal, professional, and academic development. Classes and seminars are taught by faculty, staff, and graduate student instructors who also teach courses during the academic year. This provides you the opportunity to become acquainted with the style and rigor of college classroom instruction, but in a more structured and supportive environment than is typical during the academic year. Upon completion of the summer program, you will receive a \$1,500 stipend.

(over)

Academic Year One:

During the first academic year, you will be teamed with an academic advisor, a peer mentor, and an academic coach. You will participate in group scheduling with your M-Engin peers for your core courses and participate in specially designed academic sessions. There will also be monthly group meetings to address topics relevant to M-Engin scholars, including information to assist you in preparing for your summer experience after your first year. Upon completion of the first academic semester, you will receive an additional \$750 stipend. Upon completion of the second academic semester, you will receive a final \$750 stipend.

Summer 2018:

M-Engin students will be assisted in finding career exploration experiences during the summer between the first and second years. There will be a variety of options available including a paid research experience at the University or another institution, a paid corporate internship, community-based research projects, or employment with the M-Engin summer program. You will gain a hands-on experience that will augment what you learned in the classroom and demonstrate the vast problem-solving challenges and opportunities in the field of engineering.

Academic Year Two:

During the second academic year you will continue to pursue academic and career goals with advisors and peers and continue to participate in group learning activities. Academic coaching and advising will continue to be tailored for you based on your curriculum and your interests. In addition, you will receive specific information and support as you transition to your desired major. Typically, once students enter a department with a solid academic background, they continue to excel.

Q. Would participation in the M-Engin preclude me from participating in other campus programs and activities?

A. M-Engin participants can still participate in the many campus programs and activities available such as student project teams, student societies, study abroad programs, and many others. However, M-Engin students would not be able to participate in a Living-Learning community on campus, because of the time commitments of the individual programs.

Q. How much would participation in M-Engin cost me?

A. The College of Engineering is on the frontier of new and innovative approaches to education and is strongly committed to increasing the number of responsible engineers who contribute to our society. M-Engin is a significant commitment; however we are proud to provide this experience at no cost to participants because of the support from the College of Engineering, the National Science Foundation, the Ford Fund, and other corporate contributors.

Q. How do I apply to participate in the program?

A. You can apply to participate in the M-STEM Academy by completing the online application at <https://mstem.umich.edu/apply/>

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***Dedicated to creating a diverse group of high-achieving graduates
who will positively impact our campus, our country, and our world***