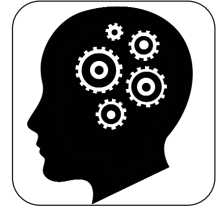


MIDDLESEX COMMUNITY COLLEGE STRATEGIES FOR SUCCESS ADVISING GUIDE: *Engineering Science Program*

The **Engineering Science Program** at MCC provides students with the education of basic fundamentals in mathematics, science, and engineering including English Language and Liberal Arts. MCC students earn an associates degree, and after complete the program, can continue taking third and fourth year classes to finish Bachelor of Science degree in engineering in other colleges or universities. Students decide the areas of engineering concentration such as Electrical Engineering, Mechanical Engineering, Civil Engineering, Chemical Engineering, Environmental Engineering, or other engineering field when they apply for transfer. **Engineering Science** students transfer to the major universities in Massachusetts as well as the institutions outside Massachusetts.



Engineers apply the principles of science, mathematics, and engineering in the design and development of components, systems, or structures including implementation and maintenance of materials. **Engineering Science** students learn and apply appropriate mathematical and engineering methods or techniques to solve basic problems in different areas of engineering.



EXPLORE YOUR OPTIONS WITH ACADEMIC ADVISING

Throughout each semester, meet with your advisor so that he/she can guide you through a self-exploration process that will help you identify your academic and career interests.

Beginning of Semester:

___ Schedule an appointment to meet with your academic advisor during the first few weeks to discuss future plans and how a Psychology Degree can help you achieve your goals.

___ Explore your personal interests by completing Focus2, an online career assessment tool:
<https://www.middlesex.mass.edu/careerservices/focus2.aspx>

Mid-Semester:

___ Schedule an appointment with academic advisor review your academic progress, Focus2 results and create an academic plan in Degree Works.

Before Semester Ends:

___ Schedule an appointment to discuss and register for the classes you will take the following semester.
(Early November for spring, Early April for fall and summer)

___ Visit the Academic Career & Transfer Center or call 1-800-818-3434 to schedule an appointment.

INSIDE THIS GUIDE

- Exploring Your Options
- Personality Inventory
- Career Path
- Transfer Path

ENGINEERING SCIENCE TRANSFER OUTCOMES

Graduates of the program are prepared to:

- Do some basic research on certain topic of interest, collect data, summarize study, and report writing;
- Understand and can define simple problems in science and engineering;
- Use engineering assumptions and mathematics for problem solving;
- Transfer to 4-year college or university for continued study in Engineering, Science or Mathematics;
- Be able to work individually as well as in a group;
- Consider and identify non-engineering implications to their solutions (e.g. environmental, ethical, legal, societal)

CONT. NEXT PAGE



STRATEGIES FOR SUCCESS ADVISING GUIDE: *Engineering Science*

QUIZ

- I like Mathematics. ___ True ___ False
- I like Science. ___ True ___ False
- I like some particular area of engineering or type of engineering product. ___ True ___ False
- I like examining and approaching problems logically. ___ True ___ False
- I like solving real world problems. ___ True ___ False

All of above statements apply to **Engineering Science**. Identically, a potential student in **Engineering Science** should answer “true” to all the statements. For every statement you consider to be true, please give yourself score of 1 point. If your total score is 4 points or more, it is suggested you can consider **Engineering Science** as major.



IS THE ENGINEERING SCIENCE MAJOR THE RIGHT FIT FOR ME?

To decide if the Engineering Science Major is right for you, answer the following question:

- Do you have an interest in science, engineering, and mathematics? ___ Yes ___ No



THE CAREER PATH

Engineering Science graduates with an associates degree establish the educational pathway and future careers in the area of engineering, science, or mathematics.

Career Planning Activities:

- ___ Work with advisor to discuss *MassTransfer*, Articulations and transfer agreements
- ___ Visit your selected campuses in person. Every college looks good online or in a glossy photo, but you can get a better feel when you visit
- ___ Meet with transfer counselor to identify transfer scholarships
- ___ Research admissions requirements and deadlines at 4-year colleges and universities



THE TRANSFER PATH

MCC Engineering Science students can to transfer to a Massachusetts college or university via *MassTransfer*.

MassTransfer provides graduates full transfer of up to 60-credit hours that is applied to a bachelor’s degree, guaranteed admission and a tuition discount. Graduates who complete their associates degree with a GPA of 2.0 (or higher) are guaranteed transfer of credits, a GPA of 2.5 (or higher) are guaranteed admission, and a GPA of 3.0 (or higher) receive a 33% tuition discount. To learn more, visit: <https://www.middlesex.mass.edu/transfer/masstransfer.aspx>.

Transfer Planning Activities:

- ___ Work with Advisor to discuss *MassTransfer*, articulations and transfer agreements
- ___ Visit your selected campus in person. Every college looks good online or in a glossy photo but you can get a better feel when you visit
- ___ Meet with transfer counselor to identify transfer scholarships
- ___ Research admissions requirements and deadlines at 4-year colleges and universities

MCC ADVISING RESOURCES

Career Services:

<https://www.middlesex.mass.edu/careerservices>

Transfer Services:

<https://www.middlesex.mass.edu/transfer>

MassTransfer:

<https://www.middlesex.mass.edu/transfer/masstransfer.aspx>

Financial Aid:

<https://www.middlesex.mass.edu/financialaid>

Foundation Scholarships:

<https://www.middlesex.mass.edu/foundation/scholarships>

College Board Match Maker:

<https://bigfuture.collegeboard.org/college-search>

CONT. NEXT PAGE