Pathways to Achievement, Completion, Career & Transfer

ACADEMIC MAP 2022-2023

15 to FINISH
MIDDLESEX COMMUNITY COLLEGE

062322

Biomedical Engineering

Associate in Science

START *here*

1

SEMESTER 1 – *FALL*	CREDITS	MILESTONE	COMPLETED
IDS 101 – First-Year Experience and two additional IDS electives	3		☐
CSC 151 – Programming I	4		☐
CHE 151 – General Chemistry for Engineering and Science I	4		☐
ENG 101 – English Composition I	3		☐
MAT 290 – Calculus I for Engineering and Science	4		☐
	TOTAL CREDITS	18	

2

SEMESTER 2 – *SPRING*	CREDITS	MILESTONE	COMPLETED
CHE 152 – General Chemistry for Engineering and Science II	4		☐
ENG 102 – English Composition II	3		☐
MAT 291 – Calculus II for Engineering and Science	4		☐
PHY 171 – Physics for Engineering and Science I	4		☐
EGR 101 – Introduction to Engineering	4		☐
	TOTAL CREDITS	19	

3

SEMESTER 3 – *FALL*	CREDITS	MILESTONE	COMPLETED
BIO 131 – General Biology I	4		☐
PHY 172 – Physics for Engineering and Science II	4		☐
CHE 251 – Organic Chemistry I and Lab	4		☐
MAT 292 – Calculus III for Engineering and Science	4		☐
ETH 101 – Ethics and Society	3		☐
	TOTAL CREDITS	19	

4

SEMESTER 4 – *SPRING*	CREDITS	MILESTONE	COMPLETED
EGR 214 – Thermodynamics	3		☐
MAT 298 – Differential Equations	3		☐
ECO 140 – Macroeconomics	3		☐
Humanities Elective: Choose from: ART 101, 105, 106; COM 103; PHL 101; ENG 113, 119, 160, 161, 185	3		☐
	TOTAL CREDITS	12	

You've FINISHED!

Milestone Courses should be taken in the order shown. This will help you stay on track and graduate on time.

Make Your Summer Matter. Summer is a great time to take some elective courses and get ahead.

Helpful Hints

- Individual electives vary by Engineering concentration.
- In some cases, MCC students will take their Engineering electives at UML, and receive full credit toward their A.S. degree through the reverse articulation agreement that is part of this proposal. Please check the requirements of your individual program for a listing of recommended electives.
- Students who wish to transfer to four-year institutions other than UML upon completion of their A.S. degree should consult with Advising early in their program.

Career and Transfer Outlook

Career opportunities are open to students who transfer and complete bachelor's degree. Engineers design complex systems, solve technical problems, and provide supervision and leadership.
This program aligns with the Massachusetts transfer STEM foundation.

To learn more, call us at **1-800-818-3434**
or visit **www.middlesex.mass.edu**