



## 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		<input type="checkbox"/>
CSC 151 – Programming I	4		<input type="checkbox"/>
CHE 151 – General Chemistry for Engineering and Science I	4		<input type="checkbox"/>
ENG 101 – English Composition I	3		<input type="checkbox"/>
MAT 290 – Calculus I for Engineering and Science	4		<input type="checkbox"/>

TOTAL CREDITS 18

**2**

SEMESTER 2 – SPRING	CREDITS	MILESTONE	COMPLETED
CHE 152 – General Chemistry for Engineering and Science II	4		<input type="checkbox"/>
ENG 102 – English Composition II	3		<input type="checkbox"/>
MAT 291 – Calculus II for Engineering and Science	4		<input type="checkbox"/>
PHY 171 – Physics for Engineering and Science I	4		<input type="checkbox"/>
EGR 101 – Introduction to Engineering	4		<input type="checkbox"/>

TOTAL CREDITS 19

**3**

SEMESTER 3 – FALL	CREDITS	MILESTONE	COMPLETED
BIO 131 – General Biology I	4		<input type="checkbox"/>
PHY 172 – Physics for Engineering and Science II	4		<input type="checkbox"/>
CHE 251 – Organic Chemistry I and Lab	4		<input type="checkbox"/>
MAT 292 – Calculus III for Engineering and Science	4		<input type="checkbox"/>
ETH 101 – Ethics and Society	3		<input type="checkbox"/>

TOTAL CREDITS 19

**4**

SEMESTER 4 – SPRING	CREDITS	MILESTONE	COMPLETED
EGR 214 – Thermodynamics	3		<input type="checkbox"/>
MAT 298 – Differential Equations	3		<input type="checkbox"/>
ECO 140 – Macroeconomics	3		<input type="checkbox"/>
Humanities Elective: Choose from: ART 101, 105, 106; COM 103; PHL 101; ENG 113, 119, 160, 161, 185	3		<input type="checkbox"/>

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 of these courses in their A.S. degree.
- 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 *MassTransfer* STEM Foundation.

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