



## 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**