



## Engineering Science Transfer – Civil/Environmental Concentration

### Associate in Science

### START here

SEMESTER 1 – FALL	CREDITS	MILESTONE	COMPLETED
MAT 290 – Calculus I for Engineering and Science	4		<input type="checkbox"/>
ENG 101 – English Composition I	3		<input type="checkbox"/>
CHE 151 – General Chemistry for Engineering and Science I	4		<input type="checkbox"/>
PHY 171 – Physics for Engineering and Science I	4		<input type="checkbox"/>
IDS 101 and 2 additional IDS Electives	3		<input type="checkbox"/>

TOTAL CREDITS 18

SEMESTER 2 – SPRING	CREDITS	MILESTONE	COMPLETED
MAT 291 – Calculus II for Engineering and Science	4		<input type="checkbox"/>
ENG 102 – English Composition II	3		<input type="checkbox"/>
CHE 152 – General Chemistry for Engineering and Science II	4		<input type="checkbox"/>
EGR 101 – Introduction to Engineering	4		<input type="checkbox"/>
PHY 172 – Physics for Engineering and Science II	4		<input type="checkbox"/>

TOTAL CREDITS 19

SEMESTER 3 – FALL	CREDITS	MILESTONE	COMPLETED
MAT 292 – Calculus III for Engineering and Science	4		<input type="checkbox"/>
ETH 101 – Ethics and Society	3		<input type="checkbox"/>
ECO 140 – Macroeconomics	3		<input type="checkbox"/>
EGR 205 – Surveying – taken at UML	3		<input type="checkbox"/>
EGR 210 – Statics	3		<input type="checkbox"/>

TOTAL CREDITS 16

SEMESTER 4 – SPRING	CREDITS	MILESTONE	COMPLETED
MAT 298 – Differential Equations	3		<input type="checkbox"/>
EGR 211 – Strength of Materials	3		<input type="checkbox"/>
EGR 212 – Dynamics	3		<input type="checkbox"/>
Humanities Elective **	3		<input type="checkbox"/>
Humanities Elective **	3		<input type="checkbox"/>

TOTAL CREDITS 15

### 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

- Students must begin the Calculus sequence in semester I.
- MAT 290 – Calculus I must be taken concurrently with, or prior to, PHY 171.
- MAT 291 – Calculus II must be taken concurrently with, or prior to, PHY 172.
- Students begin taking courses at UML during their third semester (reverse-transfer).
- Individual electives vary by engineering concentration. MCC students will take their engineering electives at UML, and receive full credit toward their associate degree through the reverse articulation agreement that is part of this program.
- Students who wish to transfer to four-year institutions other than UML upon completion of their associate degree should consult with Advising early in the program.

\*\* Humanities Electives: ART 101, 105, 106; COM 103; PHL 101; ENG 113, 119, 160, 161, 185

### Career and Transfer Outlook

Career opportunities are open to students who transfer and complete a bachelor's degree. Engineers design complex systems, solve technical problems, and provide supervision and leadership.

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