

NAME \_\_\_\_\_

STUDENT ID# \_\_\_\_\_

**CIVIL & ENVIRONMENTAL ENGINEERING DEPARTMENT**  
**BS DEGREE IN CIVIL ENGINEERING: ERE Concentration**  
**CURRICULUM EVALUATION (Catalog Years 2020-21 to present)**

<u>Course No. &amp; Name</u>	<u>Cred.</u>	<u>Gra.</u>	<u>Q.P.</u>	<u>Course No. &amp; Name</u>	<u>Cred.</u>	<u>Gra.</u>	<u>Q.P.</u>
ENL 101 Critical Read & Writing I	3	_____	_____	EGR 111 Intro to Engr & Comput.	3	_____	_____
CHM 153 Princ Chem for Engr	3	_____	_____	EGR 241 Engineering Mechanics I	3	_____	_____
CHM 161 Intro Applied Chem. I	1	_____	_____	CEN 161 Civil Engr Design Graphics	2	_____	_____
MTH 153 Calculus Appl Sci & Engr I	4	_____	_____	EGR 242 Engineering Mechanics II	3	_____	_____
ENL 102 Critical Read & Writing II	3	_____	_____	CEN 202 Mechanics of Materials	3	_____	_____
ENL 266 Technical Communications	3	_____	_____	CEN 212 Mechanics of Materials Lab	1	_____	_____
CHM 152 Princ of Modern Chem. II	3	_____	_____	CEN 303 Fluid Mechanics	3	_____	_____
MTH 154 Calculus Appl Sci & Engr II	4	_____	_____	CEN 306 Structural Analysis	3	_____	_____
MTH 212 Differential Equations	3	_____	_____	CEN 305 Soil Mechanics	3	_____	_____
MTH 213 Analytic Geom & Calc III	4	_____	_____	CEN 315 Soil Mechanics Lab	1	_____	_____
PHY 111 Physics for Sci & Engr I	4	_____	_____	CEN 209 Intro to Transport.	3	_____	_____
PHY 112 Physics for Sci & Engr II	4	_____	_____				
BIO/BNG Req. (BIO 143 or BNG 255)	3	_____	_____				

**University Studies**

Cluster 3A (3 credits)

\_\_\_\_\_

Cluster 3B (3 credits)

\_\_\_\_\_

Cluster 4A (3 credits)

\_\_\_\_\_

Cluster 4B (3 credits)

\_\_\_\_\_

The Civil Engineering Department requires for Graduation a minimum overall 2.0 quality point Average for (a) all courses completed at UMass Dartmouth and (b) all courses in the right hand column of this sheet (which comprises all required and elective CEN and EGR courses).

Cum. Average in Major: \_\_\_\_\_ = \_\_\_\_\_ (2.0 min.)

Overall Cum. Average : \_\_\_\_\_ = \_\_\_\_\_ (2.0 min.)

**TOTAL CREDITS FOR GRADUATION = 122**

rev. 8/18/20 jm

\*must have ERE emphasis

\*\*course not being used for List B can meet List C requirement

CEN 304 Intro Environmental Engr	3	_____	_____
CEN 313 Fluid Mechanics Lab	1	_____	_____
CEN 314 Environmental Engr Lab	1	_____	_____
CEN 325 Water Resources Engineering	3	_____	_____
CEN 411 Water Quality Engineering	3	_____	_____
CEN 452 Prof Prac Ethic & Safety	1	_____	_____
CEN 491 Civil Engr Project*	4	_____	_____
EGR 303 Eng. Economics	3	_____	_____

**ERE Concentration Electives**

**List A: 2 of the following 3 course options**  
(CEN 307 or CEN 408 is one option)

CEN 323 Geotechnical Engineering	3	_____	_____
CEN 334 Traffic Engineering	3	_____	_____
CEN 307/ Analysis Design Steel Structures/			
CEN 408 Analysis Design Concrete Struct	3	_____	_____

**List B: 2 courses required (C or better in each)**

EGR 333 Intro to GIS (required)	3	_____	_____
CEN 464 Water Chemistry**	3	_____	_____
EGR 415 Environmental Fluid Mechanics**	3	_____	_____

**List C: 3 courses required (C or better in each)**

CEN 412 Pollution Control of Wastes	3	_____	_____
CEN 414 Hazardous Waste Management	3	_____	_____
CEN 428 Prob. & Stats. for Civil Engineers	3	_____	_____
CEN 430 Special Topics (ERE approved)	3	_____	_____
CEN 433 Special Topics Geotechnical Eng	3	_____	_____
CEN 456 Waves and Tides	3	_____	_____
CEN 459 Dynamics of Stratified Flows	3	_____	_____
CEN 464 Water Chemistry**	3	_____	_____
CEN 465 Pollutant Trans. In the Environ.	3	_____	_____
CEN 475 Intro. To Environmental Turbulence	3	_____	_____
CHM 356 Atmos./Terrest. Environ. Chem.	3	_____	_____
EGR 415 Environmental Fluid Mechanics**	3	_____	_____
SUS 348 Ocean Policy and Law	3	_____	_____