The University of Akron – Corrosion Engineering
Program Outline

1st YEAR

FALL			SPRING		
	Physical Ed/Wellness Elective	1	7600:106	Effective Oral Communication	3
3300:111	English Composition I	4	3300:112	English Composition II	3
3150:151	Principles of Chemistry I	3	3150:153	Principles of Chemistry II	3
3150:152	Principles of Chemistry Lab	1	3150:154	Qualitative Analysis	2
3450:221	Calculus I	4	3450:222	Calculus II	4
4250:101	Tools for Corr. Eng.	2	4250:105	Mat Sci for Corr Engi	2
4200:110	Proj. Mgt. & Teamwork I	1			17
		16			

2nd YEAR

FALL			SPRING		
3150:263	Organic Chemistry I	3	3150:264	Organic Chemistry II	3
3150:265	Organic Chemistry Lab	2	3450:335	Differential Equations	3
3450:223	Calculus III	4	3650:292	Elem. Classical Physics II	4
3650:291	Elem. Classical Physics I	4	4200:225	Equilibrium Thermodynamics	4
4250:200	Mat/En Bal for Corr Eng	4	4300:201	Statics	3
4200:210	Proj. Mgt. & Teamwork II	1			
		18			17

SUMMER
OPTIONAL Co-Op WORK PERIOD
(RECOMMENDED)

3rd YEAR

FALL			SPRING		
3150:423	Analytical Chemistry I	3	*FIRST Co-Op WORK PERIOD*		
4400:320	Basic Electrical Eng.	4			
4250:300	Fund. of Aqueous Corrosion	3	**SUMMER**		
4250:301	Corrosion Lab I	1	Area Studies & Cult. Diversity Elective		2
4300:202	Mechanics of Solids	3	4250:305	Corrosion Prevention (Aq)	3
			4250:306	Corrosion Lab II	1
4200:310	Proj. Mgt. & Teamwork III	1	Social Science Elective		3
		15			9

4th YEAR

FALL			SPRING		
SECOND Co-Op WORK PERIOD				Humanities Elective	3
			3250:244	Intro to Econ. Analysis	3
			4250:340	Corrosion Prevention (Dry)	3
			4250:310	Fund. of Dry Corrosion	3
			4250:311	High Temp Corr Lab	1
SUMMER			4600:380	Mechanical Metallurgy	2
THIRD Co-Op WORK PERIOD					
					15

5th YEAR

FALL			SPRING		
3400:210	Humanities in W. Tradition I	4		Humanities Elective	3
####:###	Chem/Bio Elective	3	4#00:xxx	Corrosion Engr. Elective	3
4250:440	Corrosion Management I	3	4#00:xxx	Design Elective	3
4#00:###	Corrosion Engr. Elective	3	4#00:###	Design Elective	3
4200:410	Proj. Mgt. & Teamwork IV	1	4250:441	Corrosion Management II	3
		14			15

Core Corrosion Engineering Courses Multidisciplinary Courses Elective Courses