

Chemical and Environmental Technology Diploma (Analytical Science Option)



September 2025 Cohort Matrix

Level 1 (15 weeks) - Common Core	Credits
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Levels 1 and 2 are common to both the Analytical Science and the Process Engineering options.

CENV 1101	Safety and Technology Workshop course outline	4.0
CENV 1119	Environmental Science course outline	4.0
CHEM 1121	General Chemistry for Chemical and Environmental Technology course outline	6.0
COMM 1135	Technical Communication 1 course outline	3.0
MATH 1412	Technical Mathematics for Chemical and Environmental Technology course outline	5.0

MECH 1800	Interpreting Engineering Drawings course outline	2.0
PHYS 1181	Physics for Chemical and Environmental Technology 1 course outline	5.0

Level 2 (20 weeks) - Common Core

Credits

Levels 1 and 2 are common to both the Analytical Science and the Process Engineering options.

CENV 2200	Bioprocess Fundamentals course outline	4.0
CENV 2203	Materials Science and Technology course outline	6.5
CENV 2248	Chemical Engineering Basics course outline	4.0
CHEM 2204	Chemical Laboratory Techniques course outline	4.0
CHEM 2409	Organic Chemistry 1 course outline	8.0

MATH 2415	Statistics for CENV Technology course outline	3.5
MATH 2416	Calculus for CENV Technology course outline	3.5
PHYS 2181	Physics for Chemical and Environmental Technology 2 course outline	6.5

Level 3 (15 weeks) - Analytical Science Option		Credits
CENV 3312	Waste Management course outline	3.0
CENV 3313	Environmental Sampling and Analysis course outline	3.0
CENV 3318	Classical Analysis and Fire Assaying course outline	5.0
CENV 3341	Chemical Engineering Technology 1 course outline	5.0
CENV 3348	Industrial Processes and the Environment course outline	3.0

CHEM 3310	Physical Chemistry course outline	5.0
CHEM 3409	Organic Chemistry 2 course outline	6.0

Level 4 (20 weeks) - Analytical Science Option		Credits
CENV 0460	Ethics for Technologists course outline	
CENV 4400	Applied Research Project course outline	3.5
CENV 4401	Practicum course outline	4.5
CENV 4411	Pollution Science and Microbiology course outline	6.0
CENV 4418	Instrumental Inorganic Analysis course outline	6.0
CENV 4441	Chemical Engineering Technology 2 course outline	6.0

CHEM 4427	Instrumental Organic Analysis course outline	6.0
COMM 2135	Technical Communication 2 course outline	3.5
MATH 4416	Differential Equations and Numerical Methods for CENV Technology course outline	5.0

Total Credits:

139.5