

FALL SEMESTER		HOURS	Grade	SPRING SEMESTER		HOURS	Grade
CIE 100	Intro to Civil & Env Eng	1	_____	CIE 101	Civil Eng Graphics	3	_____
CIE 110	Materials	3	_____	CIE 115	Computing in CE	3	_____
CIE 111	Materials Lab	1	_____	MAT 127	Calculus II	4	_____
CHY 131	Chemistry for Engr	3	_____	PHY 121	Engr Physics I	4	_____
CHY 133	Chemistry Lab	1	_____	_____	HVSC W S C P A ¹	3	_____
ENG 101	College Comp	3	_____			17	
MAT 126	Calculus I	4	_____				
		16					

FALL SEMESTER		HOURS	Grade	SPRING SEMESTER		HOURS	Grade
MAT 228	Calculus III	4	_____	CIE 225	Transportation Engr ²	3	_____
MEE 150	Statics	3	_____	ECP 225	CE Tech Writing I	1	_____
PHY 122	Engineering Physics II	4	_____	MAT 258	Diff Eq & Lin Alg	4	_____
SVT 102	Surveying Principles	3	_____	MEE 251	Strength of Materials	3	_____
_____	HVSC W S C P A ¹	3	_____	_____	Approved Sci. Elective ⁷	4	_____
		17				15	

FALL SEMESTER		HOURS	Grade	SPRING SEMESTER		HOURS	Grade
CIE 331	Fund Env Eng	3	_____	CIE 365	Soil Mechanics	3	_____
CIE 340	Intro to Structural Anal	4	_____	CIE 366	Soil Mechanics Lab	1	_____
CIE 350	Hydraulics	3	_____	STS 332	Statistics for Engr	3	_____
CIE 351	Hydraulics Lab	1	_____	_____	CIE Elective ^{3,4}	3 4	_____
CMJ 103	Fund of Public Comm	3	_____	_____	CIE Elective ^{3,4}	3 4	_____
_____	HVSC W S C P A ¹	3	_____	_____	Engr Sci Elect ⁵	3	_____
		17				16	

FALL SEMESTER		HOURS	Grade	SPRING SEMESTER		HOURS	Grade
CIE 412	Engr Decisions ⁶	2	_____	CIE 410	Engineering Ethics	1	_____
CIE 413	Project Mgmt ^{2,6}	2	_____	CIE 411	Engr Project Design	3	_____
ECP 413	CE Tech Writing II	1	_____	ECP 411	Tech Writing Workshop	1	_____
_____	CIE Elective ^{3,4}	3 4	_____	_____	CIE Elective ^{3,4}	3 4	_____
_____	CIE Elective ^{3,4}	3 4	_____	_____	CIE/Tech Elect ^{3,4}	3 4	_____
_____	CIE/Tech Elect ^{3,4}	3 4	_____	_____	HVSC W S C P A ¹	3	_____
_____	HVSC W S C P A ¹	3	_____			14	
		17					

TOTAL CREDIT HOURS = 129

University of Maine Courses Meeting CIE Technical Elective Requirements

¹Biochemistry, Microbiology & Molecular Biology

BMB 322 Biochemistry

¹Biological Engineering

BLE 462 Power Transmission and Control

Biology

BIO 100 Basic Biology

BIO 200 Biology of Organisms

BIO 222 Biology: The Living Science

BIO 319 General Ecology

BIO 468 Limnology

¹Chemical Engineering

CHE 420 Colloid Technology

CHE 480 Pollution Prevention in Industrial Ecology

Chemistry

CHY 122 The Molecular Basis of Chemical Changes

CHY 242 Principles of Quantitative Analysis and Solution Equilibria

CHY 251 Organic Chemistry I

CHY 252 Organic Chemistry II

CHY 443 Instrumental Analysis

CHY 471 Physical Chemistry I

CHY 472 Physical Chemistry II

¹Civil & Environmental Engineering

CIE 394/498/598 courses

Computer Science

COS 215 Introduction to Computing Using FORTRAN

COS 220 Introduction to C++ Programming

COS 221 Advanced C++ Programming

Construction Management

CET 360 Construction Estimating and Bidding

CET 412 Sustainable Population and Environmental Design and Construction

CET 462 Construction Planning and Scheduling

Earth Science

ERS 101 Introduction to Geology

ERS 102 Environmental Geology of Maine

ERS 210 Geology Applied to Engineering

ERS 315 Principles of Sedimentology and Stratigraphy

ERS 316 Structural Geology

ERS 317 Introduction to Geophysics

ERS 369 Energy Resources and Climate Change

ERS 420 Computation in Earth Science

ERS 441 Glaciers and Our Landscape

ERS 461 Fluvial Processes in Geomorphology

Ecology and Environmental Science

EES 418 Environmental Assessment and Management Techniques

EES 450 Principles of Environmental Science

Economics

ECO 341 Waste Management

ECO 366 Applied Data Analysis for Resource Economics and Policy

ECO 377 Introduction to Natural Resource Economics and Policy

ECO 381 Sustainable Development Principles and Policy
ECO 405 Sustainable Energy Economics & Policy
ECO 473 Economic and Policy Applications of GIS
ECO 477 Economics of Environmental and Resource Management
ECO 479 Land Use Planning

¹Electrical and Computer Engineering

ECE 209 Fundamentals of Electrical Circuits

Electrical Engineering Technology

EET 321 Electro-Mechanical Energy Conversion
EET 323 Power Systems Analysis
EET 460 Renewable Energy and Electricity Production

Global Positioning Systems

400 level courses

Information Systems Engineering

ISE 303 Human-Computer Interaction
ISE 304 Digital Image Processing
ISE 305 Digital Video Analysis
ISE 403 Spatial Database Systems
ISE 404 Time in Information Systems Design

Marine Sciences

SMS 302 Oceanography
SMS 402 Oceans and Climate Change

Mathematics

MAT 400 Topics in Mathematics
MAT 453 Partial Differential Equations I
MAT 471 Differential Geometry

¹Mechanical Engineering

MEE 230 Thermodynamics I
MEE 270 Applied Mechanics: Dynamics

Plant, Soil & Environmental Science

PSE 140 Soil Science
PSE 344 Soil and Water Quality: Human Impacts on the Environment
PSE 413 Wetland Delineation and Mapping
PSE 423 Wetland Ecology and Conservation

School of Forestry Resources

SFR 400 Applied Geographic Information Systems
SFR 454 Wood Composites
SFR 455 Bioenergy Sources, Systems and Environmental Effects
SFR 482 Industrial Ecology and Life Cycle Assessment

Surveying Engineering Technology

SVT 329 Site Planning and Subdivision Design
SVT 331 Photogrammetry
SVT 341 Advanced Surveying
SVT 437 Practical GPS

Wildlife Ecology

WLE 423 Wetland Ecology and Conservation

Notes:

¹ 300/400/500 level courses in CIE, other engineering disciplines, and math and sciences are typically accepted. Refer to Advisor for approval of courses in other engineering disciplines designated as 498 or 598.

² Refer courses (including those for the Renewable Energy Minor) not listed to Advisor for approval.