CIVIL & ENVIRONMENTAL ENGINEERING MINORS
CURRICULUM CHECKLIST

Faculty Advisor	Student Name	Student Number	Class Year

☐ MINOR IN ARCHITECTURAL & FACILITIES ENGINEERING

Core Required Courses

- ☐ CE305 Construction Planning & Management
- ☐ CE408 Building Info. Modeling/Integrated Project Delivery
- ☐ CE409 Fundamentals of Building Systems
- ☐ CE448 Introduction to Architectural Engineering

Complete ONE math elective

- ☐ DS/MA241 Introduction to Data Science
- ☐ MA330 Advanced Engineering Math
- ☐ STAT383 Probability and Statistics
- ☐ STAT389 Probability and Statistics / Multivariate Analysis

Complete ONE management elective

- ☐ EM/OM380 Project Management (EC)
- ☐ FN361 Financial Management
- ☐ OS286 Organizational Behavior I (IG)
- ☐ LW270 Law and Society I

Complete ONE art elective

- ☐ DA110 Drawing (IA/C1)
- ☐ DA200 3D Digital Modeling & Imagery (IA)

Or other approved course in art history, architectural history, art appreciation, applied art, or related study

Complete TWO of the following core electives

- ☐ CE304 Introduction to Scheduling & Estimating
- ☐ CE410/510 Sustainable Infrastructure and Building
- ☐ CE415/515 Foundations and Retaining Structures
- ☐ CE442 Steel Design
- ☐ ME411 Introduction to Heat Transfer
- ☐ EE221 Linear Circuits
- ☐ EE333 Power System Engineering
- ☐ EHS330 Occupational Safety & Ergonomics
- ☐ EV305 Sustainability and the Environment
- ☐ CE404 Applications in Scheduling & Estimating
- ☐ CE411 Construction Materials Engineering
- ☐ CE441 Reinforced Concrete Design
- ☐ ME310 Thermodynamic Systems Engineering
- ☐ ME444 Computer Aided Engineering
- ☐ EE331 Energy Conversion
- ☐ EE/ME450 Control Systems
- ☐ ES238 Introduction to Energy Systems

Complete ONE capstone design course

- ☐ CE490/491 Senior Design
- ☐ ME446 Integrated Design II
- ☐ EE412 Senior Design
- ☐ EM456 Process Engineering & Design

Must have an Architectural and/or Facilities focus

☐ MINOR IN ENVIRONMENTAL ENGINEERING

Core Required Courses

Complete ONE of the following

- ☐ CE340 Introduction to Environmental Engineering
- ☐ CE380 Fundamentals of Environmental Engineering
- ☐ CH220 Materials Balances

Complete ONE of the following

- ☐ Capstone Design with specific environmental focus (e.g., CE490/1, MP401, AE451, CH420, EE412, EM456, ME446)
- ☐ Environmentally-related research (e.g., CE495, CE496, ES443/4/5/6/7)

Complete ONE chemical principles elective

- ☐ CH210 Chemical Engineering Principles
- ☐ CH221 Spectroscopy
- ☐ CM241 Organic Chemistry I
- ☐ CM371 Physical Chemistry I

Complete ONE biological principles elective

- ☐ BY214 Genetics
- ☐ BY222 Ecology & BY224 Ecology Laboratory
- ☐ BY320 Microbiology
- ☐ BY330/EV330 Great Lakes Water Protection

Complete TWO of the following professional electives

Core Professional Electives (minimum ONE required)

- ☐ CE479 Water and Wastewater Treatment Processes
- ☐ CE481 Hazardous Waste Management Engineering
- ☐ CE482 Environmental Systems Analysis and Design
- ☐ CE486 Industrial Ecology
- ☐ ES432 Risk Analysis

Other Professional Electives

- ☐ BY314 Bioinformatics
- ☐ BY328 Conservation Biology
- ☐ BY412 Molecular Biology Laboratory
- ☐ BY425 Biological Systems & Environmental Change
- ☐ BY431 Limnology & BY432 Limnology Laboratory
- ☐ BY486 Molecular Biotechnology
- ☐ CE430 Water Resources Engineering II
- ☐ CE434 Sustainable Development Engineering
- ☐ CE435 Groundwater Hydrology & Geochemistry
- ☐ CE477 Atmospheric Chemistry
- ☐ CE478 Solid Waste Management and Landfill Design
- ☐ ES436 Global Climate Change: Science, Engineering & Policy
- ☐ EHS406 Industrial Hygiene Control Methods
- ☐ EHS416 Principles of Occupational Health
- ☐ EV314 Adirondack Integrated Research Project