List of Engineering Electives for Environmental Engineering:

AME 300: Instrumentation Laboratory
AME 313: Aerospace/Mechanical Engineering Laboratory
AME 324A: Mechanical Behavior of Engineering Materials
AME 324B: Engineering Component Design
AME 442A: HVAC System Design
AME 442A: Advanced HVAC System Analysis and Design
AME 451: Vehicle Dynamics
AME 457: Orbital Mechanics and Space Flight
AME 480: Introduction to Nuclear Engineering
ATMO 469B/569B: Air Pollution II – Aerosols
BE 385: Precision Observation with Drones
BE 455: Soil and Water Resources Engineering
BE 475A: Applied Plant Physiology
BE 479: Applied Instrumentation for Controlled Environment Agriculture
BE 482: Integrated Engineered Solutions in the Food-Water-Energy Nexus
BME 416: Biomedical Imaging
CE 381: Construction Engineering Management
CE 445: Geoenvironmental Engineering
CHEE 302: Carbon Audits and Sustainability
CHEE 303: Chemical Engineering Mass Transfer
CHEE 305: Chemical Engineering Transport Phenomena
CHEE 326: Chemical and Physical Equilibrium
CHEE 402: Chemical Engineering Modeling
CHEE 412: Electrochemical Engineering
CHEE 413: Intermediate Engineering Analysis
CHEE 415: Microelectronics Manufacturing and the Environment
CHEE 420: Chemical Reaction Engineering
CHEE 435/535: Corrosion and Degradation
CHEE 436: Engineering Innovation
CHEE 437/537: Surface Science
CHEE 454/554: Law for Engineers and Scientists
CHEE 471/571: Rheology: Principles and Applications
CHEE 481A/581A: Engineering of Biological Processes (only use one time on your advisement report)
CHEE 481B/581B: Cell and Tissue Engineering
CHEE 482/582: Analysis of Emerging Environmental Contaminants
CHEE 483/583: Introduction to Polymeric Materials
CHEE 487: Topics in Transport Phenomena
CHEE 489/589: Trends in Nanomedicine Engineering – Fundamentals of Therapeutics and Drug Delivery Systems (only use one time on advisement report)

Only 3 units total from the following courses may count toward your degree (the honors section of CHEE 391 and 491 has to be set up as CHEE 399H and 499H please let the CHEE advisor know if you will be a honors preceptor):

- CHEE 391 or CHEE 399H: Preceptorship
- CHEE 399 or CHEE 399H: Independent Study
- CHEE 491 or CHEE 499H: Preceptorship
List of Engineering Electives for Environmental Engineering:

- CHEE 499 or CHEE 499H: Independent Study
- ECE 304: Design of Electronic Circuits
- ECE 320A: Circuit Theory
- ECE 330B: Computational Techniques
- ECE 351C: Electronic Circuits
- ECE 373: Object-Oriented Software Design
- ECE 446: Semiconductor Processing
- ECE 474A: Computer-Aided Design
- ENGR 452/ENGR 552: Globalization, Sustainability and Innovation
- ENGR 498A: Cross-disciplinary Design (if not used as senior design)
- ENGR 498B: Cross-disciplinary Design (if not used as senior design)
- MNE 411: Mineral Processing
- MNE 422: Engineering Sustainable Development
- MSE 331R: Fundamentals of Materials for Engineers
- MSE 434: Electrical and Optical Properties of Materials
- MSE 446: Semiconductor Processing
- MSE 450: Materials Selection for the Environment
- MSE 455: Physical Metallurgy and Processing of Alloys
- MSE 460: Materials Science in Polymers
- MSE 461: Biological and Synthetic Materials
- MSE 462: Materials Aspect/Composite Materials
- MSE 471: The Formation and Structure of Glass
- MSE 471L: The Formation and Structure of Glass Lab
- MSE 480: Advanced Characterization Methods in Materials Science and Engineering
- MSE 550: Materials Selection for the Environment
- MSE 562: Materials Aspects of Composite Materials
- SIE 321: Probabilistic Models in Operations Research
- SIE 340: Deterministic Operations Research
- SIE 406: Quality Engineering
- SIE 408: Reliability Engineering
- SIE 410A: Human Factors & Ergonomics in Design
- SIE 415: Technical Sales and Marketing
- SIE 422: Deterministic Operations Research
- SIE 457: Project Management
- SIE 482: Lean Engineering

Other electives must be approved by the CHEE Undergraduate Committee, please contact the CHEE academic adviser at advisor@chee.arizona.edu and supply the course name and number.