



## Minor in Environmental Engineering

**Overall Requirement Not Satisfied:** 19 units are required at a minimum 2.0 GPA. 9 upper division units are required, and 3 units are required in residence at The University of Arizona.

**Environmental Engineering Emphasis Core I:** 10 units required.

- CHEE 270 (4 units): *Fall only*
- CHEE 300 (3 units): *Spring only*
- CHEE 370R (3 units): *Fall only*

**Environmental Engineering Emphasis Core II:** 9 units required.

*Fall Courses:*

- AME 445 Renewable Energy Systems. *Requisites: AME 230, 331 and AS Engr*
- ATMO 469A Air Pollution I: Gases
- BE /CE 422 Open-Channel Flow. *Requisites: CE 323 or consent of instructor and AS ENGR*
- BE/CE 426 Watershed Engineering. *Requisites: AS Engr or WSM major or minor. CE 218 or AME 331*
- BE/CE 427 Computer Applications in Hydraulics. *Requisites: AS Engr. CE 323 or consent of instructor.*
- CHEE 330 Fluid Mechanics for Environmental Engineers. *Adv Stdg: Engineering. CHEE 202 and (PHYS 141 or (PHYS 140 and PHYS 139)), and MATH 254.*
- CHEE 377 Microbiology for Engineers. *Will change to spring in 25-26*
- HWRS 427 Computer Applications in Hydraulics. *Requisites: AS Engr, CE 323 or consent of instructor*
- WSM 426 – Watershed Engineering. *Requisites: AS ENGR, WSM major or minor, CE 218 or AME 331*

*Spring Courses:*

- AME 442A HVAC System Design. *Requisites: AME 230, 331 and AS Engr*
- ATMO 469B Air Pollution II: Aerosols
- BE/CE 422 Open-Channel Flow. *Requisites: CE 323 or consent of instructor and AS ENGR*
- CHEE/CE 476 Wastewater Treatment Design System. *Currently spring – will change to fall.*
- CHEE/CE 478 Intro to Hazardous Waste Management. *Requisites: AS Engineering or instructor permission.*
- CE 323 Hydraulic Engineering and Design. *Requisites: AS Engineering. CE 218.*
- CHEE 331 Heat and Mass Transfer for Environmental Engineers. *Adv. Standing Engineering and CHEE 330.*
- CHEE 336 Air Pollution Controls & Climate Change. *Requisites: AS Engr.*
- CHEE/CE 473 Biodegradation of Hazardous Organic Compounds. *Requisites: AS Engineering (not currently offered)*
- CHEE 474 Fate and Transport Processes in Environmental Engineering. *Requisites: AS Engineering and CHEE 370R or instructor permission. WILL CHANGE TO CHEE 331 in 25-26*
- CHEE/CE/BE 481A Engineering of Biological Processes. *Requisites: AS Engineering.*
- OPTI 414A Photovoltaic Solar Energy Systems. *Requisites: AS Engr*