



# MINOR IN WATERSHED SCIENCE

Minors require a minimum of 12 upper-division  
(300- to 400- level) credits.

| Check or list course sub | REQUIRED COURSES   |                                           | Offered | Prerequisites                            | # of credits |
|--------------------------|--------------------|-------------------------------------------|---------|------------------------------------------|--------------|
| _____                    | GEOL 150           | Physical Geology for Scientists/Engineers | F       |                                          | 4 or 3       |
|                          | -OR-<br>ESS/GR 210 | Physical Geography                        | F       |                                          |              |
| _____                    | WR/GR 204          | Sustainable Watersheds                    | F, S    |                                          | 3            |
| _____                    | WR 416             | Land Use Hydrology                        | F       | SOCR 240 or Geology, Statistics, Physics | 3            |
| _____                    | WR 486             | Watershed Practicum                       | F       | Junior year standing                     | 2            |

| Check or list course sub | SELECT 10 CREDITS |                                         | Offered        | Prerequisites                                                           | # of credits |
|--------------------------|-------------------|-----------------------------------------|----------------|-------------------------------------------------------------------------|--------------|
|                          | AREC 342          | Water Law, Policy & Institutions        | S              |                                                                         | 3            |
|                          | ATS 350           | Intro to Weather and Climate            | F              |                                                                         | 2            |
|                          | CHEM 334          | Quantitative Analysis Laboratory        | F, S           | CHEM 114; CHEM 335 (may be taken concurrently)                          | 1            |
|                          | CHEM 231          | Foundations of Analytical Chemistry     | F, S           | CHEM 111 & 112 or CHEM 120 & 121                                        | 3            |
|                          | CHEM 232          | Foundations of Analytical Chemistry Lab | F, S           | CHEM 114 or CHEM 231 (may be taken concurrently)                        | 2            |
|                          | CHEM 338          | Environmental Chemistry                 | S              | CHEM 107+; CHEM 141+                                                    | 3            |
|                          | CIVE/<br>ENVE 322 | Basic Hydrology                         | F, S           | CBE 331 or CIVE 300 or WR 416; CIVE 203 or STAT 301 or 315              | 3            |
|                          | CIVE 413**        | Environmental River Mechanics           | F              | CIVE 300 or WR 416                                                      | 3            |
|                          | CIVE 423          | Groundwater Engineering                 | S              | CBE 331 or CIVE 300 or WR 416                                           | 3            |
|                          | CIVE 440          | Nonpoint Source Pollution               | F              | CIVE 300 or 322 or SOCR 240 or WR 416                                   | 3            |
|                          | ESS/BZ 474        | Limnology                               | F (even years) | LAND/LIFE 220 or LIFE 320                                               | 3            |
|                          | GEOL 452          | Hydrogeology                            | F              | GEOL 120 or 122 or 134 or 150 or GR 210; MATH 161 or 255; PH 121 or 141 | 4            |
|                          | GEOL 454          | Geomorphology                           | S              | GEOL 120 or 122 or 124 or 150 or GR 210; STAT 301 or concurrent reg.    | 4            |
|                          | SOCR 322          | Principles of Microclimatology          | S              | 3 credits of Physics                                                    | 3            |
|                          | SOCR 470          | Soil Physics                            | F              | SOCR 240 or GEOL 232                                                    | 3            |
|                          | SOCR 471          | Soil Physics Lab                        | F              | SOCR 470 or concurrent reg.                                             | 1            |
|                          | SOC 461           | Water & Social Justice                  | F, S, SS       | SOC 100 or 105                                                          | 3            |

|  |        |                            |               |                                                               |   |
|--|--------|----------------------------|---------------|---------------------------------------------------------------|---|
|  | WR 406 | Seasonal Snow Environments | S (odd years) | Junior or Senior standing                                     | 3 |
|  | WR 417 | Watershed Measurements     | F             | WR 416; WR 418                                                | 3 |
|  | WR 418 | Land Use and Water Quality | S             | Any undergraduate CHEM class with lab; STAT 158 or 301 or 315 | 3 |
|  | WR 419 | Water Quality Analyses     | S             | CHEM 107 or 111; STAT 301 or 315; WR 417                      | 4 |
|  | WR 474 | Snow Hydrology             | F             | WR416                                                         | 3 |

\*\*Consult with advisor before signing up for this course.