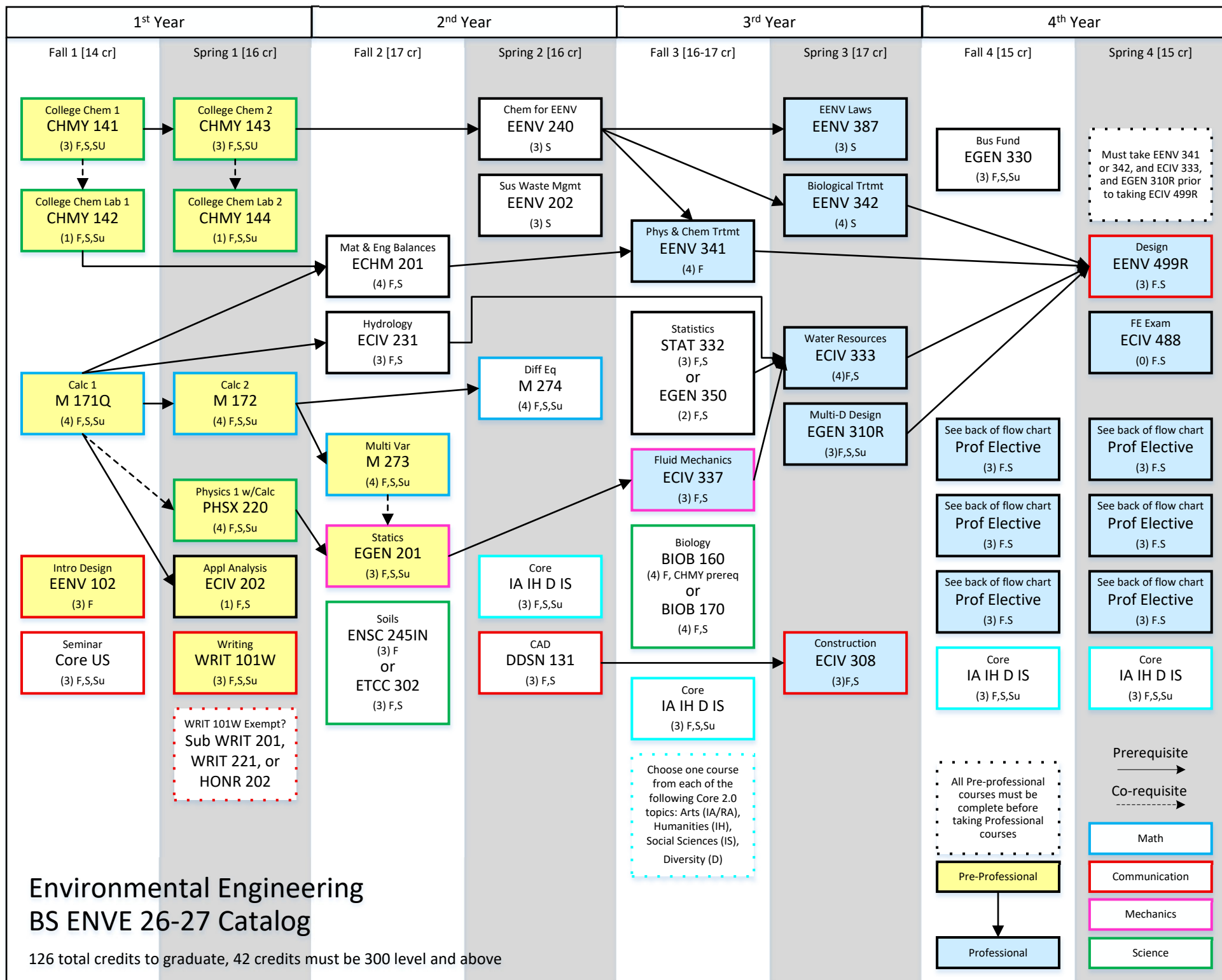




# 26-27 Environmental Engineering Professional Electives (Total of 18 credits required)

Revised 7/26

|                                                                                                                                     | Rubric | No  | Cr  | Hrs | Title                                           | Offered | Prerequisite                      |
|-------------------------------------------------------------------------------------------------------------------------------------|--------|-----|-----|-----|-------------------------------------------------|---------|-----------------------------------|
| <b>Water Resources &amp; Environmental Engineering Elective</b>                                                                     |        |     |     |     |                                                 |         |                                   |
| At least four of these classes                                                                                                      | ECIV   | 431 | 3   |     | Open Channel Hydraulics                         | F       | ECIV 333                          |
|                                                                                                                                     | ECIV   | 435 | 3   |     | Closed Conduit Hydraulics                       | S       | ECIV 333                          |
|                                                                                                                                     | EENV   | 432 | 3   |     | Advanced Engineering Hydrology                  | S even  | ECIV 333                          |
|                                                                                                                                     | EENV   | 434 | 3   |     | Groundwater Supply and Remediation              | S       | ECIV 337                          |
|                                                                                                                                     | EENV   | 436 | 3   |     | Storm Water Management Engr.                    | F       | ECIV 333 & EENV 340 or EENV 341   |
|                                                                                                                                     | EENV   | 441 | 3   |     | Natural Treatment Systems                       | S       | EENV 340 or EENV 342              |
|                                                                                                                                     | EENV   | 443 | 3   |     | Air Pollution Control                           | F       | ECIV 337 and CHMY 141             |
|                                                                                                                                     | EENV   | 445 | 3   |     | Hazardous Waste Treatment                       | F       | EENV 340 or EENV 341              |
| <b>Engineering Tools Elective</b>                                                                                                   |        |     |     |     |                                                 |         |                                   |
| At least one of these                                                                                                               | DDSN   | 245 | 3   |     | Civil Drafting                                  | F,S     | DDSN 131                          |
|                                                                                                                                     | EENV   | 498 | 3   |     | Career Internship                               | F,S,Su  |                                   |
|                                                                                                                                     | GPHY   | 284 | 3   |     | Intro to GIS Sci and Cartography                | F,S,Su  |                                   |
|                                                                                                                                     | SRVY   | 230 | 3   |     | Intro to Surveying for Engineers                | F,S     | M 171                             |
| <b>Additional 3 credits required from the lists above or below to reach the required 18 credits. See your advisor for guidance.</b> |        |     |     |     |                                                 |         |                                   |
|                                                                                                                                     | BIOE   | 370 | 3   |     | General Ecology                                 | F,S     | BIOB 170                          |
|                                                                                                                                     | BIOM   | 452 | 3   |     | Soil and Environmental Microbiology             | S odd   | CHMY 143, ENSC 245                |
|                                                                                                                                     | ECHM   | 405 | 3   |     | Sustainable Energy                              | F       | EMAT 251 and ECHM 307 or EMEC 320 |
|                                                                                                                                     | ECIV   | 406 | 3   |     | Sustainability Issues in Construction           | S       | ECIV 308                          |
|                                                                                                                                     | ECIV   | 444 | 3   |     | Civil Engineering Computations                  | S       | ECIV 202 and M 273                |
|                                                                                                                                     | ECIV   | 459 | 3   |     | Sustainable Transportation and Community Health | S       | ECIV 350 or consent of instructor |
|                                                                                                                                     | EIND   | 425 | 3   |     | Technology Entrepreneurship                     | F       | EGEN 325 or EGEN 330              |
|                                                                                                                                     | EIND   | 434 | 3   |     | Project Management for Engineers                | F       | Jr Standing                       |
|                                                                                                                                     | EIND   | 477 | 3   |     | Quality Management Systems                      | S       | EIND 354 or EGEN 350              |
|                                                                                                                                     | ENSC   | 460 | 3   |     | Soil Remediation                                | S       | ENSC 245                          |
|                                                                                                                                     | GPHY   | 384 | 3   |     | Advanced GIS and Spatial Analysis               | F,S     | GPHY 284                          |
|                                                                                                                                     | EENV   | 490 | 1-4 |     | Undergraduate Research                          | F,S,Su  | Consent of Instructor             |
|                                                                                                                                     | ECIV   | 492 | 1-4 |     | Independent Study                               | F,S,Su  | Consent of Instructor             |
| Maximum 3 cr total                                                                                                                  |        |     |     |     | A petitioned course.                            |         |                                   |
|                                                                                                                                     |        |     |     |     | A course from a completed minor.                |         |                                   |
|                                                                                                                                     |        |     |     |     | A course from a prior/concurrent BS/BA degree.  |         |                                   |
|                                                                                                                                     |        |     |     |     | A course from a completed Honors program.       |         |                                   |