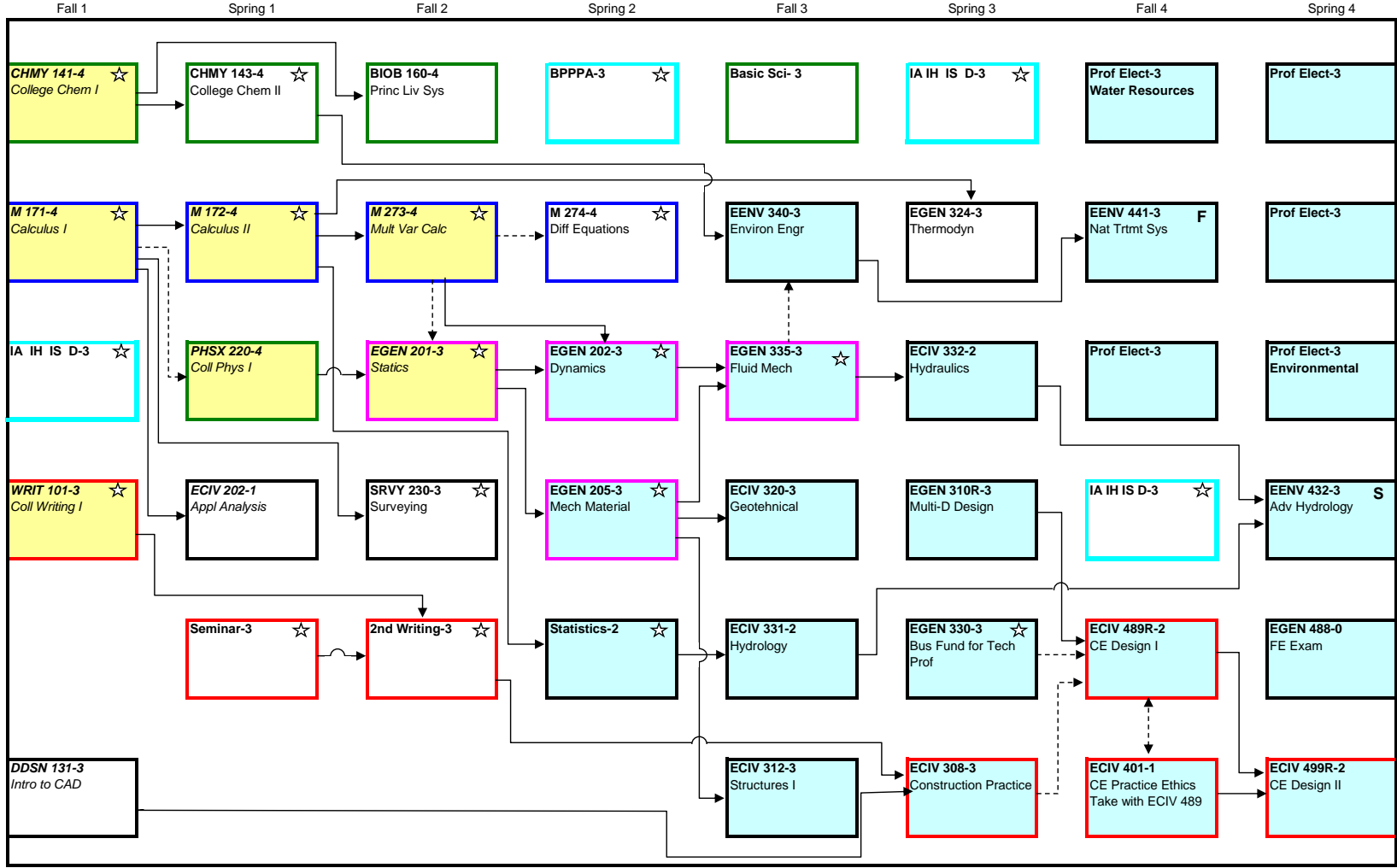


2017 - 2018 Catalog Degree: Civil Engineering Option: Bio-Resources Engineering

Modified: 2/2017



17-18

Basic Science Elective:
 BIOB 170 (F,S) Organismal Biology (4)
 ENSC 245 (F) Soils (3)
 ENSC 272 (F) Water Resources (3)
 GPHY 284 (F,S) Intro to GIS Science and Cartography (3)
 NRSM 240 (F) Natural Resources Ecology (3)
 PHSX 222 (F,S) Physics II (4)
 BIOM 360 (F,S) General Microbiology (5)

17-18

BPPPA:
 ECNS 101IS (F,S) Economic Way of Thinking
 BGEN 242D (F,S) Intro. to International Business
 PSCI 210IS (F, S, Su) Introduction to American Government
 PSCI 214IS (F) Principles of Political Science
 PSCI 230D (F) Introduction to International Relations

17-19

Seminar: US 101, CLS 101, COMX 111, HONR 201
 2nd Writing: BMGT 205, WRIT 201, WRIT 221, HONR 202
 Statistics: EGEN 350-2, STAT 332-3
 ☆ Indicates Summer Offering

Student _____
 ID - _____
 Prerequisites: —————> F Fall Only
 Corequisites: - - - - -> S Spring Only

2017-18 Bio-Resources Option Professional Electives (Total of 15 cr-hrs required) Revised 2/17

| | Rubric | Number | Cr Hrs | Title | Offered | Prerequisite |
|------------------------|--------|--------|--------|---|---------|--|
| At least one of these. | ECIV | 431 | 3 | Open Channel Hydraulics | F | ECIV 332 Hydraulics |
| | EENV | 434 | 3 | Groundwater Supply and Remediation | S | EGEN 335 Fluid Mechanics |
| | ECIV | 435 | 3 | Closed Conduit Hydraulics | S | ECIV 332 Hydraulics |
| | EGEN | 435 | 3 | Fluid Dynamics | S | EGEN 335 Fluid Mechanics |
| At least one of these. | EENV | 440 | 3 | Water Chemistry for Environmental Engineers | F | EENV 340 Introduction to Environmental Engineering |
| | EENV | 443 | 3 | Air Pollution Control | F even | EENV 340 Introduction to Environmental Engineering |
| | EENV | 445 | 3 | Hazardous Waste Treatment | F odd | EENV 340 Introduction to Environmental Engineering |
| | EENV | 447 | 3 | Hazardous Waste Management | S | EGEN 335 Fluid Mechanics |
| | BIOE | 370 | 3 | General Ecology | S | BIOB 170 Organismal Biology |
| | ECIV | 309 | 3 | Building Information Modeling in Construction | F | ECIV 308 Constr Practice (Co-Req) |
| | ECIV | 311 | 3 | Construction Project Documentation | F | ECIV 308 |
| | ECIV | 315 | 3 | Structures II | F,S | ECIV 312 Structures I |
| | ECIV | 350 | 3 | Transportation Engineering | F,S | |
| | ECIV | 406 | 3 | Sustainability in Construction | S | ECIV 308 |
| | ECIV | 420 | 3 | Earth and Foundation Engineering | S | ECIV 320 Geotechnical Engineering |
| | ECIV | 425 | 3 | Geotechnical Structures | F | ECIV 320 Geotechnical Engineering |
| | ECIV | 455 | 3 | Srvy Data Collection & Analysis for Transpo Engrg | S even | EGEN 350 or EIND 354 |
| | ECIV | 461 | 3 | Cold Regions Infrastructure Engineering | S | ECIV 320 & EGEN 335 Co-Req. of ECIV 308 |
| | ENSC | 460 | 3 | Soil Remediation | S | ENSC 245 Soils |
| | ENSC | 461 | 3 | Restoration Ecology | F | BIOB 170 Organismal Biology |
| | GPHY | 384 | 3 | Advanced GIS and Spatial Analysis | F,S | GPHY 284 Introduction to GIS Science and Cartography |
| | SRVY | 375 | 3 | Analyt Photo/Remote Sensing | F odd | SRVY 230 Surveying |
| | ENSC | 353 | 3 | Environmental Biogeochemistry | F | CHYMY 143 and ENSC 245 |
| | ENSC | 444 | 3 | Watershed Hydrology | F | ENSC 245 Soils |
| | ENSC | 448 | 3 | Stream Restoration Ecology | F | BIOB 170 and NRSM 240 or BIOE 370 |
| | EENV | 490 | 1-4 | Undergraduate Research | F,S,Su | |
| | ECIV | 492 | 1-4 | Independent Study | F,S,Su | |
| | ECIV | 498 | 2 max | Career Internship | Su | |
| | EGEN | 498 | 3 max | Engineering Internship (EWB) | Su | |
| Max 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. | | |