

Upper Division Electives 2020-2021

Fall 2020

| Course | Course Title | Units | Instructor |
|-------------|--|-------|----------------|
| GEL 146 | Radiogenic Isotope Geochemistry | 3 | Yin |
| GEL 181 | Math and Science Teaching – Middle School | 2 | Horn |
| GEL 183 | Math and Science Teaching – High School | 3 | Pinter, Susann |
| GEL 186 | Learning Assistant Seminar | 1 | Stevenson |
| GEL 190 | Seminar | 1 | TBD |
| ECI 175 | Geotechnical Earthquake Engineering | 4 | Boulanger |
| ESM 100 | Principles of Hydrologic Science | 4 | Grismer |
| HYD 144 | Groundwater Hydrology | 4 | Harter |
| LDA/ABT 150 | Introduction to Geographic Information Systems | 4 | Kisekka |
| SSC 100 | Principles of Soil Science | 5 | Scow |

Please note: GEL 55, 56, & 109 will only be offered in Fall this year. GEL 109L will be offered Fall and Spring

Winter 2021

| Course | Course Title | Units | Instructor |
|-----------------|---|-------|----------------|
| GEL 131 | Risks and Natural Hazards | 3 | Rundle |
| GEL 141 | Evolutionary History of Vertebrates | 3 | Motani |
| GEL 150B | Geological Oceanography | 3 | McClain |
| GEL 156/HYD 146 | Hydrogeology and Contaminant Transport | 5 | Fogg |
| GEL 162 | Geophysics of the Solid Earth | 3 | Rudolph |
| GEL 181 | Math and Science Teaching – Middle School | 2 | Horn |
| GEL 183 | Math and Science Teaching – High School | 3 | Pinter, Susann |
| GEL 186 | Learning Assistant Seminar | 1 | Stevenson |
| GEL 190 | Seminar | 1 | TBD |
| CHE 100 | Environmental Water Chemistry | 3 | TBD |
| ECI 171+171L | Soil Mechanics | 5 | Martinez Vela |
| ESM 186 | Environmental Remote Sensing | 5 | Jin |
| GEOG 168 | Intermediate GIS, online through UCLA | 4 | Shin, Ocon |

Please note: GEL 53 and 108 will only be offered in Winter this year

Spring 2021

| Course | Course Title | Units | Instructor |
|--------------|--|-------|----------------|
| GEL 116N | Oceanography | 3 | TBD |
| GEL 120 | Big Bang to Today | 3 | Osleger |
| GEL 136 | Ecogeomorphology | 5 | Pinter |
| GEL 161 | Geophysical Field Methods | 3 | Billen |
| GEL 175 | Advanced Field Geology | 3 | Montanez |
| GEL 181 | Math and Science Teaching – Middle School | 2 | Horn |
| GEL 183 | Math and Science Teaching – High School | 3 | Pinter, Susann |
| GEL 186 | Learning Assistant Seminar | 1 | Stevenson |
| GEL 190 | Seminar | 1 | TBD |
| ECI 171+171L | Soil Mechanics | 5 | Ziotopoulou |
| LDA/ABT 150 | Introduction to Geographic Information Systems | 4 | Dahlke |

Please note: GEL 105 will only be offered in Spring this year. GEL 109L will be offered Fall and Spring

Summer 2021

| Course | Course Title | Units | Instructor |
|-----------------|--|-------|------------|
| ESP 152 | Coastal Oceanography (at Bodega Marine Lab) | 3 | Largier |
| LDA 150/ABT 150 | Introduction to GIS (Study Abroad in Bhutan) | 4 | Beardsley |

Upper Division Electives:

- Choose from courses GEL 130-194 or pre-selected non-GEL courses.
- Only one of GEL/EDU 181 or 183 or 185A or 185B or 186 may be applied toward elective credit.
- No more than three units of upper division elective credit for courses GEL 115-120.
- No more than six units of upper division elective credit for GEL 192 or 194A-B or 194HA-HB.
 - Students who receive approval to do a senior thesis for part of the capstone requirement may not use 194A-B or 194HA-HB for the upper division elective courses.
- Pre-selected non-GEL courses:
 - CHE 100 – Environmental Water Chemistry (3 units)
 - ECI 171+171L – Soil Mechanics (5 units)
 - ECI 175 – Geotechnical Earthquake Engineering (4 units)
 - ESM 100 – Principles of Hydrologic Science (4 units)
 - ESM 186 – Environmental Remote Sensing (5 units)
 - ESP 152 – Coastal Oceanography (3 units)
 - HYD 144 – Groundwater Hydrology (4 units)
 - HYD 146 – Hydrogeology and Contaminant Transport (5 units)
 - LDA 150/ABT 150 – Introduction to Geographic Information Systems (4 units)
 - Cross-enrollment online class at UCLA: Geography 168 – Intermediate GIS (4 units)
<https://crossenrollcourses.universityofcalifornia.edu/catalog/view/119?title=GEOG+168+Intermediate+Geographic+Information+Systems> (this course counts as UC Davis' LDA/ABT 150, so students cannot take both)
 - SSC 100 – Principles of Soil Science (5 units)
 - WFC 102+102L – Ecogeomorphology (1 unit) / Lab (6 units)
 - Other courses in related fields must be approved in advance by the major advisor.