

## Upper Division Electives 2020-2021

### Fall 2020

Course	Course Title	Units	Instructor
GEL 140	Process Geomorphology	4	Pinter
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, and 109L will only be offered in Fall this year\**

### 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	Hill
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

## Summer 2021

Course	Course Title	Units	Instructor
GEL 150C	Biological Oceanography (at Bodega Marine Lab)	4	Hill
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.