

List of Approved Science Electives
Computer Science Department
Revised 8/2015

Atmospheric Sciences:

- 110/110L Meteorology I (4)
- 210 Intro.to Synoptic Meteorology (4)
- 340 Intro to Radar Meteorology (4)
- 350 Atmospheric Thermodynamics (3)
- 353 Physical Meteorology (3)
- 360 Dynamic Meteorology (4)
- 441 Radar Meteorology (4)
- 450 Introduction to Cloud Physics Meteorology (4)

Bio Chemistry:

- 301 Biochemistry lecture (3)

Biology:

- 150/150L General Biology I (3/1)
- 151/151L General Biology II (3/1)
- 369/369L Histology (2/2)
- 433 Aquatic Ecology (3)
- 312 Evolution (3)
- 332/332L General Ecology (3/1)
- 333 Population Biology (3)
- 336 Systematic Botany (4)
- 338/338L Animal Behavior (2/2)
- 341/341L Cell Biology (3/1)
- 363 Entomology (4)
- 428 Mammology (3)
- 442 Physiology of Organs and Systems (3)
- 470 Biometry (3)

Chemical Engineering:

- 201 Fundamentals of Chem. Eng.(3)
- 206 Unit Operations in Chem. Eng. (3)
- 232 Chemical Engineering Laboratory I (2)
- 301 Introduction to Transport Phenomena (4)
- 331 Chemical Engineering Laboratory II (2)
- 332 Chemical Engineering Laboratory III (2)
- 408 Process Dynamics and Control (3)
- 431 Chemical Engineering Laboratory IV (3)

Chemistry:

- 115/115L Introductory Chemistry (3/1)
- 116/116L Intro to Organic and Biochem. (3/1)
- 121/121L General Chemistry I (3/1)
- 122/122L General Chemistry II (3/1)
- 340/340L Survey of Organic Chemistry (4/1)
- 341/341L Organic Chemistry I (4/1)
- 342/342L Organic Chemistry II (4/1)
- 454 Inorganic Chemistry II (3)
- 455 Spectroscopy and Structure (3)
- 462 Physical Chemistry Laboratory (3)
- 463 Advanced Synthesis Laboratory (3)

Geography:

121/121L Global Physical Environment (3/1)
134/134L Introduction to Global Climate (3/1)
334 Climatology (4)
374/374L Environmental Remote Sensing
& Air Photo Interpretation (2/1)

377/377L Quant App in Geog./Spatial Anal. Lab (2/1)
421 Selected Topics in Physical Geography (3)
474/474L Introduction to GIS/GIS lab (2/1)
475 Digital Image Processing (3)

Geology & Geological Engineering:

101/101L Introduction to Geology (3/1)
102/102L The Earth Through Time (3/1)
311 Geomorphology (4)
318 Mineralogy (3)
320 Petrology (3)
321 Geochemistry (3)

330 Structural Geology (3)
411 Sedimentology and Stratigraphy (5)
414 Applied Geophysics (3)
415 Introduction to Paleontology (4)
417/418 Hydrogeology/Hydrogeological Methods (3/2)
419 Groundwater Monitoring and Remediation (3)

Mechanical Engineering:

301 Materials Science (3)
306 Fluid Mechanics (3)
341 Thermodynamics (3)
342 Intermediate Thermodynamics (3)

426 Mechanical Vibrations (3)
474 Fundamentals of Heat and Mass Transfer (3)
476 Intermediate Fluid Mechanics (3)

Microbiology:

302/302L General Microbiology Lecture and Laboratory (2/2)

Physics:

110/110L Introductory Astronomy (3/1)
211/211L College Physics I (4)
212/212L College Physics II (4)
251/251L University Physics I (4)
252/252L University Physics II (4)
253/253L University Physics III (4)
317 Mechanics I (3)
318 Mechanics II (3)

320 Introductory Materials Science (3)
324 Thermal Physics (3)
325/325L Optics (3/1)
327 Electricity and Magnetism I (3)
328 Electricity and Magnetism II (3)
431 Quantum Mechanics I (3)
434 Nuclear Physics (3)
460 Introduction to Astrophysics (3)