UNIVERSITY GRADUATION REQUIREMENTS: OSU’s minimum credit hour requirements are met by combining Baccalaureate Core and Major courses plus other electives of your choice. Additional electives may be needed to reach the university degree requirements.

_____ 180 credits – Minimum number of credits required for a BS degree
_____ 60 credits – Minimum number of upper division credits required
_____ 2.00 Cumulative OSU GPA
_____ 45 of the last 75 credits (or 150 total credits) of coursework must be from OSU

BACCALAUREATE CORE REQUIREMENTS: Total of 48 credits plus WIC course. No single course may be used to satisfy more than one area of the Bacc Core. Courses fulfilled through the major are checked.

Skills (15 credits)
☐ Writing I (3)
☐ Writing II (3)
☐ Speech (3)
☐ Math 105 or higher (3)
☐ HHS 231 Lifetime Fitness for Health (2)
☐ Fitness lab (HHS 241-248 or any PAC course) (1)

Perspectives Courses (24 credits- no more than two courses taken from the same department)
☐ Biological Science w/lab (4) (Met by BI 211/212/213)
☐ Physical Science w/lab (4) (Met by GEO 201)
☐ Biological or Physical Science w/lab (4) (Met by GEO 202)
☐ Cultural Diversity (3)
☐ Literature and the Arts (3)
☐ Social Processes and Institutions (3)
☐ Western Culture (3)

Difference, Power & Discrimination (3 credits)
☐ Difference, Power and Discrimination (3)

Synthesis (6 credits – These two courses must be upper division and from different subjects.)
☐ Contemporary Global Issues (3)
☐ Science, Technology and Society (3)

Writing Intensive Course within Earth Sciences (3 credits)
☐ Met by OC 334 (3)

EARTH SCIENCES MAJOR REQUIREMENTS - OCEAN SCIENCE OPTION: Students must earn at least a C minus in upper division (300 or higher) courses required for the major, and a 2.0 GPA in major coursework. Students cannot S/U major requirements.

Basic Math and Science Requirements (49 credits)
☐ MTH 251 Differential Calculus (4)
☐ MTH 252 Integral Calculus (4)
☐ ST 351 Intro to Statistical Methods (4)

Chemistry Requirements
☐ (CH 231 + CH 261) or CH 121 (5)
☐ (CH 232 + CH 262) or CH 122 (5)
And take the third chemistry or physics course from courses listed below:
☐ (CH 233 + CH 263) or CH 123 (5)

Physics Requirements
☐ PH 211 or PH 201 (4-5)
☐ (PH 212 + PH 222) or PH 202 (5)

Choose two Biology courses
☐ BI 211 Principles of Biology (4)
☐ BI 212 Principles of Biology (4)
☐ BI 213 Principles of Biology (4)
Earth Sciences Core Courses (19-20 credits)
- OC 201 Oceanography (4) [FW]
- GEO 201 Physical Geology (4) [FW]
- GEO 202 Earth Systems Science (4) [W]
- ATS 201 Climate Science (4) [FSp]

Choose one core skills course
- CBEE 102 Engineering Prob. Solving and Comp. (3)
- ENGR 112 Introduction to Engineering Computing (3)
- GEOG 360 GISci. I: Geog. Info. Sys. & Theory (4) [FSp]
- PH 265 Scientific Computing (3)
- ST 352 Introduction to Statistical Methods (4)

Ocean Science Core (36 credits)
- OC 333 Oceans, Coasts and People (3) [FSp]
- OC 332 Coastal Oceanography (3) [W]
- OC 334 Polar Oceanography (3)[WIC [Sp]

- OC 430 Principles of Physical Oceanography (4) [F]
- OC 450 Chemical Oceanography (4) [W]
- OC 440 Biological Oceanography (4) [Sp]
- OC 460 Geological Oceanography (3) [Sp]

Take two terms of seminar:
- OC 407 Seminar (1) [FWSp]
- OC 407 Seminar (1) [FWSp]

Experiential Learning
- OC 295 Field Oceanography (3) [W - Spring Break] OC 201

Take a total of six credits combined of the following
- OC 401 Research
- OC 403 Thesis
- OC 410 Internship

Ocean Science Electives: Choose 18 credits of electives from the following lists. Additional MTH courses would be appropriate for some students planning on graduate studies in ocean science. Ask your advisor if you would like to apply these.

Biological
- GEO 484 Introduction to Biogeochemistry (3) [W Alt E]
- OC/FW 434 Estuarine Ecology (4) [F]
- BI 351 Marine Ecology (3)
- BI/FW 464 Marine Conservation Biology (3)
- BI 370 Ecology (3)
- One additional Biology course: BI 211, BI 212, or BI 213 (4)

Climate
- ATS 301 Climate Data Analysis (4) [F]
- ATS 310 Meteorology (4) [F]
- ATS 420 Principles of Climate (4) [W]
- ATS 421 Climate Modeling (4) [Sp]
- GEOG 323 Climatology [WIC (4) [Sp]
- GEO 481 Glacial Geology (4) [F Alt E]
- GEO 486 Quaternary Paleoclimatology (3) [W Alt O]

Remote Sensing
- GEOG 370 Geovisualization: Cartography (4) [W]
- GEOG 480 Remote Sensing I: Principles and Applications (4) [F]

Alt = alternating
O=odd, E=even
F=fall, W=winter, Sp=spring
WIC = Writing Intensive